1987 DEPENDABOOK ◆ NUMBER 233 ◆ $5

HARRY ALTER

AIR CONDITIONING ◆ REFRIGERATION ◆ HEATING
PARTS ◆ SUPPLIES ◆ EQUIPMENT ◆ SINCE 1933

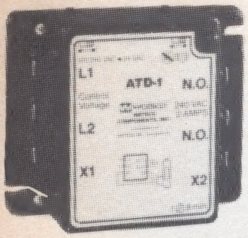
alter

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H ALTER PROVIDES
APPY SERVICE

NEW WATSCO PRODUCTS

ATD-1 Alarm Module



The ATD-1 Module is a self-contained audible and visual alarm package. The unit can be operated by wiring it to any remote control contact. The 75 db of sound or the pilot light will alert someone to possible system problems. It can be used with the RLM-1 Refrigerant Loss Monitor, Pressure Controls also Alarm Switches, and other monitoring devices. This alarm package also provides a time delay function which is adjustable (.1 to 8 min.) to lock out the alarm contacts upon startup, as required in some installations.

No.	Voltage Input	Alarm Indicators	Weight
1740	24-277 VAC	Pilot light Buzzer - 75 db Sound Aux. contact closes on fault 2 AMPS - 240 VAC	.3 lbs.

Cappy Jr. Battery Operated Pocket Capacitor



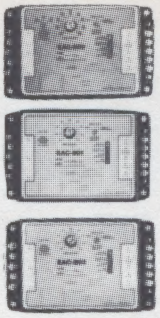
Features dual range selector switch, LO-1 to 10 MFD, Hi-10 to 1000 MFD and hide-away test leads.
1760

Search High Viscosity Liquid Leak Detector



For refrigerant, air and gas systems. Clings to the area where it is applied and pinpoints even the slightest leak. Can be used with oxygen and compressed gases.
1704 4 oz. squeeze bottle
1708 8 oz. bottle/dauber

Three Phase Multiple Function Controls for Short Cycle, High & Low Voltage and Phase Protection



Linebacker Series 800

Watsco's Linebacker Series 800 multiple function solid state controls protect motors and compressors from short cycling due to repeated thermostat switching and momentary power interruptions. They also provide protection for abnormally high or low voltages, phase loss, phase reversals and monitor the control circuit voltage. Indicator lights are turned on during operation and will also indicate system problems. Output N.O. and N.C. relay contacts are provided for control purposes. All models have a selectable 5 minute delay and automatic or manual reset. Models are available for all standard line voltages and can be adjusted for local system voltages.

Selectable Functions:

Primary Voltages .... Adjustable
Time Delay .... 5 Minute on Break
Manual Reset .... Locked Out
Automatic Reset .... 15 Second Delay
Output Contacts .... N.C. and N.O.

Pilot Lights For Operational Status:

- Control Voltage On
- Phase Reversal
- Voltage/Phase Loss
- Time Delay On

Specifications:

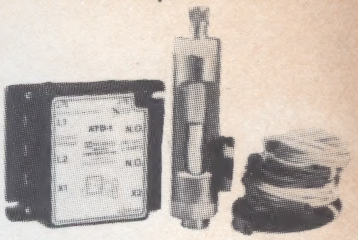
Accuracy .... ± 3%
Temperature Range .... -40^0 to $+165^0$F
Control Voltages .... 24 VAC-277 VAC
Power Draw .... 5 watts
Weight .... 1.1 lbs.
6 Second Fault Delay to Prevent Nuisance Tripping

Protection From:

Undervoltage .... -10% Shutdown
Overvoltage .... + 10% Shutdown
Phase Loss .... Shutdown
Phase Reversal .... Shutdown
Short Cycling .... 5 Minute Time Delay

No.	System Voltage Ranges	Description	Control Relay Ratings
1514	Medium or High Selectable and Adjustable	Three phase unit for 208/ 220/230/240/ 430/440/ 480 VAC applications - Two adjustable ranges: 190-270 VAC, 380-540 VAC - Control Voltages: 24-277 VAC-5 min. time delay on break - Under/ over voltage and phase monitoring.	N.O. Contact and N.C. Contact
1517	Medium and Adjustable	Three phase unit for 208/ 220/230/240 VAC applications - One adjustable range: 190-270 VAC - Control Voltages: 24-277 VAC - 5 min. time delay on break - Under/over voltage and phase monitoring.	
1518	High and Adjustable	Three phase unit for 430/ 440/460/480 VAC applications - One adjustable range: 380-540 VAC - Control Voltages: 24-277 VAC - 5 min. time delay on break - Under/over voltage and phase monitoring.	3A 24 VAC 2A 120 VAC

Watsco Refrigerant Loss Monitors 2 Group Product



Trouble-shooter (RLM-1)

Watsco's RLM-1 operates under the principle that a normal operating refrigeration system will contain subcooled liquid refrigerant in the liquid line going to the expansion device. When the RLM-1 is connected to the liquid line immediately upstream of the expansion device, and the system is operating with a normal charge, the RLM-1 will fill with liquid causing the float to rise and the switch to open. If a leak or other system malfunction occurs causing the system to produce less subcooled liquid, the float will drop and the switch will close. Upon starting the compressor after an off cycle, a short time is required for the system to produce liquid in the liquid line and in the RLM-1. This requires a time delay in your alarm circuit to prevent false alarms. It's designed to be mounted in an upright position on the liquid line, just before the expansion device.

Trouble-shooter (RLM-2)

An RLM-2 is available which includes an additional switch that can be used in an automatic recharge scheme or other control functions to indicate maximum liquid refrigerant level.

Trouble-shooter (RLMK-1 Installation Kit)

This installation kit contains the ATD-1 alarm/time delay module, connecting wire harness and the refrigerant loss monitor unit. This installation kit provides a complete early warning system when connected to an external control voltage (24-277 VAC) source.

Trouble-shooter (RLMK-2 Installation Kit)

Includes the same description as in the RLMK-1 with the additional switch.

No.	Model	Description	WT.
1741	RLMK-1	RLM unit with one switch-ATD-1 alarm module-hook up wires	1.30
1742	RLMK-2	RLM unit with two switches-ATD-1 alarm module-hook up wires	1.30
1743	RLM -1	RLM unit with one switch	1.12
1744	RLM -2	RLM unit with two switches	1.12

Watsco Adjustable Time Delay Solid State Output



Short cycle protection is available with these linebackers. These models provide solid state output and are easily installed. Devices will not affect temperature control and include a continuity circuit for thermostats with cooling anticipators. The solid state timers prevent short cycling of compressors and motors by delaying re-start after momentary power failure or thermostat interruption.

No.	Product	Delay Time	Control Voltage
1705	EAC-505	Adjustable .1-8 min. on break	24-277 VAC
1706	EAC-705	Adjustable .1-8 min. on make	24-277 VAC

Response Time .05

	Control Circuit Load Capacity	Terminations Dimension, In.
1705	1 AMP run 10 AMP in rush	Quick connects 2 x 2 x 3/4
1706	same	same

SEE SEPARATE PRICE LIST

⅛ to ⅓ H.P. Hermetic Tecumseh Compressors For Domestic and Commercial Refrigeration and Low Temperature All Compressors 115 Volt 60 Cycle Single Phase

Normal Starting Torque Used With Capillary Tube Only
Higher Starting Torque Used With Expansion Valve Or Capillary Tube

All Compressors Have Overload and Relay
AE Compressors Have 4" x 6½" Mounting Hole Centers
AJ Compressors Have 4 13/16" x 8" Mounting Hole Centers

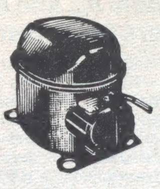


Fig. 1

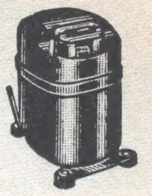


Fig. 3

No.	Fig.	Tecumseh Model	H.P.	Refr.	Back Press.	Torque	Connections Suction OD	Suction ID	Discharge OD	Discharge ID	¼" OD Cooler Tube	Cap.	Displ.	Overall Inches Wide	Long	High	Oil Charge Oz.	Ship. Wt. Lbs.
62000L	1	AE1336A	⅛	R-12	Low	Normal	5/16"	¼"	¼"	3/16"	No	No	0.274	6 1/32	10¾	6 13/16	10	24
62020L	1	AE3414A	1/6	R-12	High	Normal	5/16"	¼"	¼"	3/16"	No	No	0.274	6 1/32	10¾	6 13/16	10	24
62021L	1	AE1343A	1/6	R-12	Low	Normal	5/16"	¼"	¼"	3/16"	Yes	No	0.334	6 1/32	10¾	6 13/16	10	24
62030L	1	AE1360A	1/5	R-12	Low	Normal	5/16"	¼"	¼"	3/16"	Yes	No	0.462	6 1/32	10¾	7½	16	25
62031L	1	AE3417A	1/5	R-12	High	Normal	—	¼"	¼"	3/16"	No	No	0.346	6 1/32	10¾	7 15/32	10	24
62032L	1	AE3425A	1/5	R-12	High	Normal	5/16"	¼"	¼"	3/16"	No	No	0.462	6 1/32	10¾	7½	10	24
62052L	1	AE1380A	¼	R-12	Low	Normal	5/16"	¼"	¼"	3/16"	Yes	No	0.540	6 1/32	10¾	8	16	24
62058L	1	AE3430A	¼	R-12	High	Normal	—	5/16"	—	¼"	No	No	0.540	6 1/32	10¾	8	10	26
62056L	1	AE4430A	¼	R-12	High	Higher	⅜"	SAE	¼"	3/16"	No	Yes	0.540	6 1/32	10¾	8	10	26
62055L	1	AE2410A	¼	R-12	Low	Higher	⅜"	SAE	—	¼"	Yes	Yes	0.735	6 1/32	10¾	7¾	13	32
62059L	1	AE1410A	¼	R-12	Low	Normal	—	5/16"	—	¼"	Yes	No	0.735	6 1/32	10¾	7¾	13	26
62054L	1	AE1411E	¼	R-22	Low	Normal	—	5/16"	—	¼"	No	Yes	0.546	6 1/32	10¾	8	16	28
62082L	1	AE1415E	⅓	R-22	Low	Normal	—	5/16"	—	¼"	No	Yes	0.688	6½	8⅝	8¼	16	30
62088L	1	AE4440A	⅓	R-12	High	Higher	⅜"	SAE	—	¼"	No	Yes	0.735	6½	10	8	16	28
62091L*	1	AE4440A	⅓	R-12	High	Higher	⅜"	OD	—	¼"	No	Yes	0.735	6½	10	8	16	28
62090L	1	AE4448A	⅓+	R-12	High	Higher	⅜"	SAE	—	¼"	No	Yes	0.856	6 1/32	10¾	8	16	33
62084L	3	AJ2416A	⅓	R-12	Low	Higher	⅜"	SAE	—	5/16"	No	Yes	1.114	6½	8⅝	10⅛	22	47
62087L	1	AE2415A	⅓	R-12	Low	Higher	⅜"	SAE	—	¼"	No	Yes	0.980	6 1/32	10¾	7¾	13	32
62086L	1	AE2413A	⅓	R-12	Low	Higher	⅜"	SAE	—	¼"	Yes	Yes	0.860	6 1/32	10¾	7¾	13	32
62089L	1	AE1413A	⅓	R-12	Low	Normal	—	5/16"	—	¼"	Yes	No	0.860	6 1/32	10¾	7¾	13	32

*62091L stub tube used where suction service valve is not required

All AJ & AK Models have 4-13/16" x 8" Mtg. Hole Centers
All Other Models Have 7½" x 7½" Mtg. Hole Centers

Tecumseh ½ H.P. and ¾ H.P. Hermetic Compressors

No.	Fig.	Tecumseh Model	H.P.	Refr.	Back Press.	Torque	Single Phase 60C Voltage	Connections Suction OD	Suction ID	Discharge OD	Discharge ID	Displ.	Overall Inches Wide	Long	High	Oil Charge Oz.	Ship Wt. Lbs.
62111L	3	AJ1420E	½	R-22	Low	Normal	115	½"	SAE	—	5/16"	0.928	6½	8⅝	11-1/16	22	52
62110L	3	AJ4461A	½	R-12	High	Higher	115	½"	SAE	—	5/16"	1.114	6½	8⅝	11-1/16	22	52
62112L	3	AJ4461A	½	R-12	High	Higher	230/208	½"	SAE	—	5/16"	1.114	6½	8⅝	11-1/16	22	52
62113L	3	AJ2425A	½	R-12	Low	Higher	115	½"	SAE	⅜"	5/16"	1.595	6½	8⅝	11	22	52
62114L	3	AJ2425A	½	R-12	Low	Higher	230/208	½"	SAE	⅜"	5/16"	1.595	6½	8⅝	11	22	52
62117L	3	AJ7441A	½	R-12	Med.	Higher	115	½"	SAE	⅜"	5/16"	1.383	6½	8⅝	11-1/16	22	50
62118L	3	AJ7441A	½	R-12	Med.	Higher	230/208	½"	SAE	⅜"	5/16"	1.383	6½	8⅝	11-1/16	22	50
62120L	—	AK9434A	½	R-12	0° to 50°	Higher	115	½"	SAE	—	¼"	1.134	8	12½	9	15	42
62121L	—	AK9434A	½	R-12	0° to 50°	Higher	230/208	½"	SAE	—	¼"	1.134	8	12½	9	15	42
62122L	—	AK9441A	½	R-12	0° to 50°	Higher	115	½"	SAE	—	¼"	1.379	8	12½	9	15	42
62123L	—	AK9441A	½	R-12	0° to 50°	Higher	230/208	½"	SAE	—	¼"	1.379	8	12½	9	15	42
62163L	5	AH2435A	¾	R-12	Low	Higher	230/208	¾"	⅝"	7/16"	⅜"	2.650	8-5/16	10⅛	13	45	72
62155L	3	AJ4492A	¾	R-12	High	Higher	115	⅝"	SAE	—	5/16"	1.580	6½	8⅝	11-1/16	22	50
62156L	3	AJ4492A	¾	R-12	High	Higher	230/208	⅝"	SAE	—	5/16"	1.580	6½	8⅝	11-1/16	22	50
62153L	3	AJ7465A	¾	R-12	Med.	Higher	115	⅝"	SAE	⅜"	5/16"	1.990	6½	8⅝	11	22	58
62154L	3	AJ7465B	¾	R-12	Med.	Higher	230/208	⅝"	SAE	⅜"	5/16"	1.990	6½	8⅝	11	22	55

5 YEAR LIMITED WARRANTY

One Year Limited Warranty For Hermetic Units and Compressors

All hermetic compressors and units are guaranteed from defects in material and workmanship under normal use for 12 months after date of sale. This warranty is voided if on factory inspection they find that failure is due to corrosion, moisture, the use of refrigerants other than those authorized for that particular model, introduction of inferior oil or other fluid or foreign matter. This warranty is also voided if the compressor stub tubes are cut off, if the name plate is removed, if the compressor is mutilated, or has mechanical damage. This warranty is limited to replacing or repairing the compressor only, not including labor or refrigerant, provided it is returned to Harry Alter Co. house transportation prepaid, and the replacement reshipped, transportation charges collect.

Extended 4 Year Limited Warranty for Hermetic Compressors

An additional 4 year limited warranty policy on compressors purchased from the Harry Alter Co. This warrants the compressor to remain free from defects in material and workmanship for an aggregate of 5 years after installation. The Harry Alter Co.'s only obligation under this warranty will be to grant a credit towards the purchase of a replacement compressor in an amount no greater than the purchase price of the original compressor under warranty, or its replacement provided the compressor is returned to any Harry Alter Co. house, transportation prepaid, and the replacement reshipped transportation charges collect, subject, however, to the warranty becoming void under the same conditions and requirements as specified above with respect to the one year warranty. The warranty does not cover component parts of the compressor such as capacitors, relays, overloads, or valves, nor does it cover the complete unit or system, nor labor, nor refrigerant.

Please Note

When hermetic units are to be used for replacement, the entire system should be very carefully cleaned and dehydrated. We strongly recommend the use of suction line drier installed before the compressor and a standard dehydrator on hermetic units. Elimination of moisture and foreign matter is essential for satisfactory operation of hermetic units. Use only specific refrigerant and oils recommended in Catalog. Installation of suction line driers and accumulators and crankcase heaters on outdoor installations are mandatory.

EXTENDED 4 YEAR LIMITED WARRANTY For Hermetic Compressors

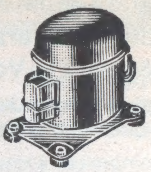
No.	H.P.	No.	H.P.	No.	H.P.
37074B	1/8, 1/6, 1/5	**37077B**	1, 1-1/4	**37081B**	3-1/2, 4, 5
37075B	1/4, 1/3		1-1/2, 1-3/4	**37082B**	5-1/2, 6
37076B	1/2, 3/4	**37078B**	2, 2-1/2	**37083B**	7-1/2, 9
		37080B	3	**37084B**	10, 12

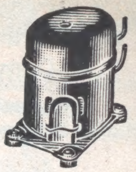
SEE SEPARATE PRICE LIST

Compressors

Tecumseh Model AE and AK Portable Room Air Conditioners Replacement Compressors

Compressors are sold without a base. They have a strap or loop that fits in any one of the bases listed below. The base is then firmly clamped through the loop. This gives you a variety of mountings for each compressor. Bases must be bought separately. They are good replacements for Model AJ compressors. Compressors are sold less capacitors and relays but with overload. For a hard start kit use 21-25 Mfd. 250V start capacitor No. 48053 and resistor No. 48627. All compressors except No. 62209L and 62211L need a 15 Mfd. 370V No. 49814 run capacitor with starting relay No. 39165. (Tecumseh No. 82785). Compressor No. 62209L and 62211L need a 25 Mfd. 370 V. 49820 run capacitor. The full load Ampere and the BTU ratings at the standard rating conditions of temperatures for 130 F. condensing 45° F evaporating, 95° F ambient and 115° F liquid to expansion device.


Fig. 8

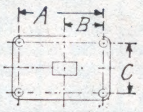

Fig. 9

Use R 22, 60 Cycle One Phase, With Overload, Without Relay, Capacitor and Base

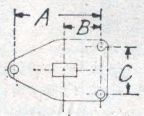
No.	Fig.	Tecumseh	HP	At Rated Conditions Full Load			Torque	Suction Conn.		Discharge Conn.		Displ.	Oil Charge Oz.	Wide	Long	High	Ship Wt.
				Volt	Amp	BTU		OD	ID	OD	ID						
62119L	8	AE5460E	½	115	7.0	6000	Normal		⅜		¼	.688	10	6-1/32"	8¾"	9"	28 Lb.
62164L	9	AK5470E	¾	115	7.1	7000	Normal	½	⅜	⅜	¼	.782	17	6⅜"	9⅜"	9½"	36 Lb.
62165L	9	AK5483E	¾	115	9.0	8300	Normal	½	⅜	⅜	¼	.954	17	6⅜"	9⅜"	9½"	38 Lb.
62166L	9	AK5483E	¾	230/208	4.4	8300	Normal	½	⅜	⅜	¼	.954	17	6⅜"	9⅜"	9½"	38 Lb.
62207L	9	AK5510E	1	115	10.5	10000	Normal	½	⅜	⅜	¼	1.134	17	6⅜"	9⅜"	9½"	38 Lb.
62208L	9	AK5510E	1	230/208	5.7	10000	Normal	½	⅜	⅜	¼	1.134	17	6⅜"	9⅜"	9½"	38 Lb.
62211L	9	AK5510E	1	265	5.0	10000	Normal	½	⅜	⅜	¼	1.134	17	6⅜"	9⅜"	9½"	38 Lb.
62209L	9	AK5511E	1	115	11.0	11000	Normal	½	⅜	⅜	¼	1.250	17	6⅜"	9⅜"	9½"	38 Lb.
62210L	9	AK5512E	1	230/208	6.8	12000	Normal	½	⅜	⅜	¼	1.360	17	6⅜"	9⅜"	9½"	38 Lb.
62212L	9	AK5512E	1	265	5.9	12000	Normal	½	⅜	⅜	¼	1.360	17	6⅜"	9⅜"	9½"	38 Lb.

Bases For Model AE and AK Compressors

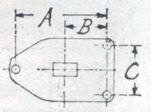
AE and Model AK replacement compressors are made with a strap or loop on the bottom that fits into the 1-15/16" by 2-3/16" oblong slot in these bases. The compressor is supplied with a ⅞" by 5" oblong spring that fits this loop below the base. On all bases with 3 hole mountings the third hole is on a center line between the other 2 holes. Bases are dished to match the shape of the bottom of the compressors. Shown are bolt hole mountings and the location of the slot.



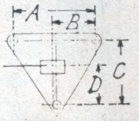
39801



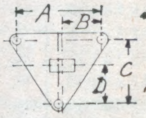
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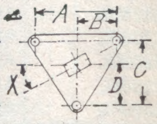
39803



39804



39805



39806

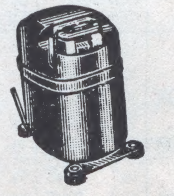
No.	Tecumseh	Kit No.	A	B	C	D
39801	28677	K698-1	8"	3-11/16"	4-13/16"	2-13/32"
39802	28680	K698-3	8¼"	3½"	4½"	2¼"
39803	28690	K698-6	8⅝"	4"	4-13/16"	2-13/32"

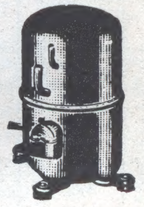
(No. 39806 Note the X indicates a 27° angle)

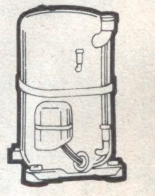
No.	Tecumseh	Kit No.	A	B	C	D
39804	28681	K698-2	8"	4-5/16"	6⅛"	3-23/32"
39805	28682	K698-4	8"	3-11/16"	6⅛"	3-23/32"
39806	28687	K698-5	8"	4"	6⅛"	3-27/32"
39807		⅞" x 5"		Mtg. spring		

Tecumseh Hermetic Compressors From 1 H.P. to 4 H.P.

All of these compressors are higher torque used with expansion valve or capillary tube. All compressors have overload, AH models have an internal overload. AJ models have 4 13/16"x8" mtg. hole centers, all others have 7½"x7½" mtg. hole centers. Complete with electricals.


Fig.3


Fig. 5


Fig. 7

60 Cycle Single Phase Relay, Capacitor and Overload Incl.

No.	Fig.	Tecumseh	H.P.	Ref.	Back Press.	Voltage	Connections: Suction		Connections: Discharge		Displ.	Overall Inches			Oil Charge Oz.	Ship. Wt. Lbs.
							OD	ID	OD	ID		Wide	Long	High		
62196L	3	AJ4512A	1	R-12	High	230/208	⅝"SAE		—	5/16"	2.090	6½	8⅝	10⅝	22	55
62204L	5	AH2445A	1	R-12	Low	230/208	¾"	⅝"	7/16"	⅜"	3.240	8 5/16	10⅛	13	45	80
62203L	5	AH7480A	1	R-12	Med.	230/208	¾"	⅝"	7/16"	⅜"	2.872	8 5/16	10⅛	13	45	80
62242L	5	AH4518A	1½	R-12	High	230/208	¾"	⅝"	—	⅜"	3.240	6½	8⅝	10⅝	45	80
62246L	5	AH7511B	1½	R-12	Med.	230/208	¾"	⅝"	½"	⅜"	4.030	8 3/16	10⅛	14⅛	45	78
62249L	5	AH2466A	1½	R-12	Low	230/208	⅞"	—	½"	⅜"	4.520	8 3/16	10⅛	14⅛	45	80
62276L	5	AH2480J	1¾	R-502	Low	230	⅞"	—	½"	⅜"	3.240	8 5/16	10⅛	14½	45	80
62285L	5	AH4525A	2	R-12	High	230/208	⅞"	—	½"	⅜"	4.520	8 5/16	10⅛	13 15/16	45	95
62294L	5	AH7514A	2	R-12	Med.	230/208	⅞"	—	½"	⅜"	4.520	8 5/16	10⅛	14⅛	45	95
62295L	5	AH25511K	2	R-502	Low	230	⅞"	—	½"	⅜"	4.520	8 5/16	10⅛	14⅛	45	95
62341L	7	AG4534A	3	R-12	High	230/208	1⅛"	—	½"	—	6.148	9	10½	16⅝	65	110
62339L	5	AH7524J	3	R-502	Med.	230	⅞"	—	½"	⅜"	4.520	8 5/16	10⅛	14½	45	90
62388L	7	AG4543A	4	R-12	High	230/208	1⅛"	—	—	½"	7.591	9	10½	16⅝	65	115

Auto Air Conditioning Compressor Model HG

Auto air conditioning compressor for vertical or horizontal mounting provided the crankshaft is horizontal. Cast iron head with aluminum pistons and connecting rods. Precision balancing for static and dynamic balance for operating up to 6000 RPM. For R-12 refrigerant only. HP depends on speed of operation but normally rated at 2 H.P.

Less Service Valves With Connections For Rotolock Valves Less Flywheel

No.	Cyl.	Mfg. Model	Bore	Stroke	Displ. Cu. In.
36957L	2	HGB1000	1-7/8"	1-7/8"	10.35

SEE SEPARATE PRICE LIST

60 Cycle 3 Phase Overload Incl.

62205L	5	AH7480A	1	R-12	Med.	240/208	¾"	⅝"	—	⅜"	2.872	8 5/16	10⅛	13	55	76
62206L	5	AH2445A	1	R-12	Low	240/208	¾"	⅝"	7/16"	⅜"	3.240	8 5/16	10⅛	13	55	76
62247L	5	AH4518A	1½	R-12	High	240/208	¾"	⅝"	—	⅜"	3.240	6½	8⅝	10⅝	45	80
62248L	5	AH7511A	1½	R-12	Med.	240/208	¾"	⅝"	½"	⅜"	4.030	8 3/16	10⅛	14⅛	55	78
62251L	5	AH2466A	1½	R-12	Low	240/208	⅞"	—	½"	⅜"	4.520	8 3/16	10⅛	14⅛	55	80
62291L	5	AH4525A	2	R-12	High	240/208	—	¾"	½"	⅜"	4.520	8 5/16	10⅛	13 5/16	55	95
62292L	5	AH7514A	2	R-12	Med.	230/208	⅞"	—	½"	⅜"	4.520	8 5/16	10⅛	14⅛	55	95
62293L	5	AH2511K	2	R-502	Low	230/208	⅞"	—	½"	⅜"	4.520	8 5/16	10⅛	14⅛	55	95
62342L	7	AG4534A	3	R-12	High	230/200	1⅛"	—	½"	—	6.148	9	10½	16⅝	65	100
62340L	5	AH7524J	3	R-502	Med.	230/208	⅞"	—	½"	⅜"	4.520	8 5/16	10⅛	14½	45	75
62389L	7	AG4543A	4	R-12	High	230/200	1⅛"	—	—	½"	7.591	9	10½	16⅝	65	100

Tecumseh Hermetic Compressors For Air Conditioning and Heat Pumps

• Normal Starting Torque Used With Capillary Tube Only • High Back Pressure A/C • Higher Starting Torque Used With Expansion Valve or Capillary Tube • All AJ Compressors Have 4 13/16" x 8" Mtg. Hold Center • BTU Ratings At Standard Conditions

Use R-22, 60 Cycle Single Phase, Without Relay or Capacitor

No.	Fig.	Tecumseh	BTU	H.P.	Torque	Voltage	Connections Suction OD	ID	Discharge OD	ID	Displ.	Overall Inches Wide	Long	High	Oil Charge Oz.	Ship. Wt. Lbs.
62233L	3	AJ5515F	15,000	1¼	Normal	230/208	—	½"	⅜"	5/16"	1.580	6½	8⅝	10 13/32	26	52
62234L	3	AJ5515F	15,000	1¼	Normal	265	—	½"	⅜"	5/16"	1.595	6½	8⅝	10 13/32	26	52
62250L	3	AJ5517E	16,600	1½	Normal	230/208	—	½"	⅜"	5/16"	1.830	6½	8⅝	11 1/16	26	53
62275L	3	AJ5518E	18,500	1½	Normal	265	—	½"	⅜"	5/16"	1.990	6½	8⅝	10 27/32	26	53
62272L	3	AJ5519G	19,000	1¾	Normal	230/208	—	½"	⅜"	5/16"	2.090	6½	8½	11 1/16	26	53

(No. 62272L Is Used On Self-contained Units)

All AH and AB Models For F-22 With 7¼"x7¼" Mtg. Hole Center — 60 Cycle Single Phase

All AH Models Have Line Break Internal Overloads And Internal Relief Valves To By-pass High Pressure Over A 550 Lb. Differential

62274L	—	AB5519G	19,200	1¾	Normal	230/208	¾"	⅝"	—	⅜"	2.227	8½	9	11⅝	32	60
62296L	—	AB5524G	24,000	2	Normal	230/208	¾"	⅝"	—	⅜"	2.722	8½	9	11⅝	32	62
62290L	5	AH5524E	24,000	2	Normal	230/208	⅝"	½"	—	5/16"	2.650	8-5/16	10⅛	13¼	45	79
62327L	5	AH5527E	27,100	2½	Normal	230/208	⅞"	¾"	—	⅜"	2.990	8-5/16	10⅛	13	45	75
62329L	—	AB5528G	28,400	2½	Normal	230/208	¾"	⅝"	—	⅜"	2.993	8½	9	13	32	64
62319L	—	AB5530G	30,000	2½	Normal	230/208	¾"	⅝"	⅜"	5/16"	3.117	8½	9	13	32	67
62328L	5	AH5531E	31,000	2½	Normal	230/208	¾"	⅝"	½"	⅜"	3.450	8-5/16	10	14⅛	45	78
62337L	5	AH5540E	40,000	3	Normal	230/208	⅞"	¾"	½"	⅜"	4.520	8-5/16	10	14¾	45	82

60 Cycle 3 Phase

62286L	5	AH5524E	24,000	2	Higher	240/208	⅝"	½"	—	5/16"	2.650	8-5/16	10⅛	13¼	45	79
62326L	5	AH5531E	31,000	2½	Higher	240/208	⅞"	¾"	½"	⅜"	3.450	8-5/16	10	14⅛	45	76
62336L	5	AH5540E	40,000	3	Higher	240/208	⅞"	¾"	½"	⅜"	4.520	8-5/16	10	14¾	45	82
62338L	5	AH5540E	40,000	3	Higher	480/440	⅞"	¾"	½"	⅜"	4.520	8-5/16	10	14¾	45	82

All Model AG Compressors For R-22 Refrigerant High Back Pressure—60 Cycle Single Phase Mtg. Hole Centers 7½"x7½"

62362L	7	AG5546E	46,000	3½	Normal	230/208	1"	⅞"	—	½"	5.505	9	10½	16	65	99
62385L	7	AG5553E	53,000	4	Normal	230/208	1"	⅞"	—	½"	6.148	9	10½	16	65	104
62414L	7	AG5561E	61,000	5	Normal	230/208	1"	⅞"	—	½"	6.866	9	10½	16	65	110
62430L	7	AG5568E	68,000	6	Normal	230/208	1"	⅞"	—	½"	7.591	9	10½	16	65	119

60 Cycle 3 Phase

62363L	7	AG5546E	46,000	3½	Higher	230/200	1"	⅞"	—	½"	5.505	9	10½	16	65	96
62386L	7	AG5553E	53,000	4	Higher	230/200	1"	⅞"	—	½"	6.148	9	10½	16	65	96
62415L	7	AG5561E	61,000	5	Higher	230/200	1"	⅞"	—	½"	6.866	9	10½	16	65	101
62431L	7	AG5568E	68,000	6	Higher	230/200	1"	⅞"	—	½"	7.591	9	10½	16	65	107
62387L	7	AG5553F	53,000	4	Higher	460	1"	⅞"	—	½"	6.148	9	10½	16	65	96
62416L	7	AG5561F	61,000	5	Higher	460	1"	⅞"	—	½"	6.866	9	10½	16	65	101
62432L	7	AG5568F	68,000	6	Higher	460	1"	⅞"	—	½"	7.591	9	10½	16	65	107

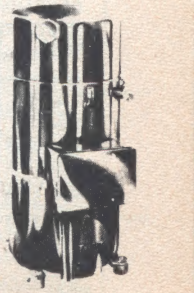
DO NOT ATTEMPT TO OPERATE COMPRESSOR WITHOUT TERMINAL COVER IN PLACE

AN Air Conditioning Compressors

All High Torque 60 cycle 3 Phase 4 Hole Mounting 8-21/32" x 8-21/32" With Integral Suction Accumulator

***RLA — Rated Load Amperes Ratings Are Only Approximate**

No.	Tecumseh Model	BTU	HP	Voltage	Connections Suct.	Disch.	Displ	Watts	RLA*	Shp Wt Lbs
90080Y	AN5590G	92,500	7½	230/200	1⅛"	¾"	11.15	9,100	27	190
90084Y	AN5590G	92,500	7½	460	1⅛"	¾"	11.15	9,500	13.7	190
90082Y	AN5610G	100,000	9	230/200	1⅛"	¾"	11.94	10,000	29	190
90086Y	AN5610G	100,000	9	460	1⅛"	¾"	11.94	10,000	14.4	190
90090Y	AN5612G	122,000	10	230/200	1⅛"	¾"	14.0	12,000	35	199
90094Y	AN5612G	122,000	10	460	1⅛"	¾"	14.0	12,450	17.8	199
90092Y	AN5614E	140,000	12	230/200	1⅛"	¾"	15.90	14,100	40	215
90096Y	AN5614E	140,000	12	460	1⅜"	¾"	15.90	14,550	20.8	215



SEE SEPARATE PRICE LIST

Compressors

AN Air Conditioner Compressors With Separate Suction Accumulator

No.	Tecumseh Model	BTU	HP	Voltage	Connections Suct.	Connections Disch.	Displ	Watts	RLA*	Shp Wt Lbs
90081Y	AN5590H	92,500	7½	230/200	1⅛"	¾" Adpt.	11.15	9,100	27	196
90085Y	AN5590H	92,500	7½	460	1⅛"	¾"	11.15	9,500	13.7	196
90083Y	AN5610H	100,000	9	230/200	1⅛"	¾"	11.94	10,000	29	202
90087Y	AN5610H	100,000	9	460	1⅛"	¾"	11.94	10,000	14.4	202
90091Y	AN5612H	122,000	10	230/200	1⅛"	¾"	14.0	12,000	35	211
90095Y	AN5612H	122,000	10	460	1⅛"	¾"	14.0	12,450	17.8	211
90093Y	AN5614F	140,000	12	230/200	1⅜"	¾"	15.90	14,100	40	230
90097Y	AN5614F	140,000	12	460	1⅜"	¾"	15.90	14,550	20.8	230

Tecumseh Current Replacement List

Recommended Procedure To Follow When Replacing Compressor

Tecumseh Compressors, with the exception of single phase air conditioning models, are supplied with correct electricals. The current model replacement compressor may not use the same electricals as the old model it is replacing. On single phase air conditioning compressor always replace (if used) start relay and start capacitor. Make sure a 15,000 ohm 2 watt bleeder resistor is soldered across the start capacitor. Run capacitors if re-used must be "good" and proper voltage and MFD Rating.

For Reference Only

Letters in Last Column Need These Bases

Letter	Needs Base No.	Letter	Needs Base No.
A	36799	G	39809
B	36783, 36255	H	39801
C	36255	Letter Needs Both Bases	
D	36695	K	36799 & 39808
E	36696	L	39801 & 36783
F	39808	M	39801 & 36799

Use the electricals recommended for the replacement compressor listed in the table of electrical service parts.

More than half the compressors used to replace older compressors need an adapter plate base for mounting. A few need two adapter plates. These adapter bases are listed in the last column by letters.

Old Model	Descrip-tion	Our No.	Current Model	Base Needed
1/20 HP				
AE1320A		**62000**	AE1336A	
AE20Z5		**62000**	AE1336A	
1/12 HP				
AE12Z7		**62000**	AE1336A	
AE1332A		**62000**	AE1336A	
1/8 HP				
AE8ZA7		**62000**	AE1336A	
AE1336A		**62000**	AE1336A	
S84		**62030**	AE1360A	A
S88		**62021**	AE1343A	A
1/6 HP				
AE6ZA7		**62020**	AE3414A	
AE6ZD7		**62021**	AE1343A	
AE1343A		**62021**	AE1343A	
AE3414A		**62020**	AE3414A	
S64		**62030**	AE1360A	A
S68	R12	**62031**	AE3417A	A
S68	R22*	**62030**	AE1360A	A
*Change No. 62030 to R12 Using Cap. Tube For R-12				
S6814		**62030**	AE1360A	A
1/5 HP				
AE5ZA9		**62031**	AE3417A	
AE5ZF9		**62030**	AE1360A	
AE1360A		**62030**	AE1360A	
AE3417A		**62031**	AE3417A	
AE3425A		**62032**	AE3425A	
AE59ZF9		**62032**	AE3425A	
AT5C		**62052**	AE1380A	A
C4614		**62055**	AE2410A	F
S54		**62030**	AE1360A	A
S58		**62031**	AE3417A	A
S5414		**62052**	AE1380A	A
S5814		**62031**	AE3417A	A
T53		**62032**	AE3425A	A
T55		**62030**	AE1360A	A
1/4 HP				
AE1380A		**62052**	AE1380A	
AE1411A		**62054**	AE1411E	
AE410A		**62059L**	AE1410A	
AE3430A		**62056**	AE4430A	
AE4ZF11		**62052**	AE1380A	
AE41		**62056**	AE4430A	
AE4ZF11		**62052**	AE1380A	
AE4430A		**62056**	AE4430A	
AJ438		**62054**	AE1411E	E
AP4111		**62056**	AE4430A	E
AR43		**62055**	AE2410A	E
AT43		**62055**	AE2410A	F
AT4C		**62056**	AE4430A	F
C4614		**62055**	AE2410A	A
C4416		**62055**	AE2410A	A
C4616		**62055**	AE2410A	A
C4N14		**62055**	AE2410A	A
CAE41		**62056**	AE4430A	
CAT43		**62055**	AE2410A	F
CAT4C		**62056**	AE4430A	F
C4414A-S4414A		**62056**	AE4430A	F
S4414A		**62056**	AE4430A	F
S4416-S4616		**62055**	AE2410A	A
S4614		**62055**	AE2410A	A
S4616		**62055**	AE2410A	A
S4814		**62054**	AE1411E	A
S4N14		**62055**	AE2410A	A
1/3 HP				
AE1413A		**62089L**	AE1413A	
AE2413A		**62086L**	AE2413A	
AE1415A		**62087L**	AE2415A	
AE1415E		**62082**	AE1415E	
AE2415A		**62087L**	AE2415A	
AE3440A		**62088**	AE4440A	
AE4440A		**62088**	AE4440A	
AJ3E		**62082**	AE1415E	A
AJ3612		**62084**	AJ2416A	
AT3J12		**62087**	AE2415A	F
AT34		**62088**	AE4440A	F
AT35		**62089**	AE1413A	F
AT3512		**62087**	AE2415A	F
B3411		**62087**	AE2415A	A
B3811		**62090**	AE4448	A
C3716		**62087**	AE2414A	A
C3N14		**62088**	AE4440A	A
C3N16		**62087**	AE2415A	A
C3R16		**62087**	AE2415A	A
C3S16		**62087**	AE2414A	A
CAJ34		**62090**	AE4448	A
CAJ3612		**62084**	AJ2416A	
CAJ3P		**62084**	AJ2416A	
CAP3311		**62088**	AE4440A	E
CAT34		**62088**	AE4440A	F
CAT35		**62087**	AE2415A	F
CAT3512		**62087**	AE2415A	F
CAT3J12		**62087**	AE2415A	F
S3414		**62082**	AE1415E	A
S3714		**62087**	AE2415A	A
S3716		**62087**	AE2415A	A
S3814	R22	**62088**	AE4440A	A
Change Above to R12 Using Cap. Tube For R12				
S3N14		**62088**	AE4440A	A
S3N16		**62087**	AE2415A	A
S3R16		**62087**	AE2415A	A
AE5460E	115	**62119**	AE5460E	
AE5461E	115	**62119**	AE5460E	
1/2 HP				
AJ2425A	115	**62113**	AJ2425A	
AJ2425A	230	**62114**	AJ2425A	
AJ26	115	**62111**	AJ1420E	
AJ2612	115	**62110**	AJ4461A	
AJ4461A	115	**62110**	AJ4461A	
AJ4461A	230	**62112**	AJ4461A	
AJ7441A	115	**62117**	AJ7441A	
AJ7441A	230	**62118**	AJ7441A	
AR26	115	**62110**	AJ4461A	
AU3	115	**62119**	AE5460E	L
AU4	115	**62164**	AE5470E	L
AU14	115	**62164**	AE5470E	L
AU24	115	**62110**	AJ4461A	A
B2413	115	**62110**	AJ4461A	A
B2513	R12	**62110**	AJ4461A	A
B2513	R22	**62111**	AJ1420E	A
B2516	115	**62117**	AJ7441A	A
B2616	115	**62113**	AJ2425A	A
B2616	230	**62114**	AJ2425A	A
B2813	115	**62111**	AJ1420E	A
B2L16	115	**62113**	AJ2425A	A
C2513	115	**62110**	AJ4461A	A
C2513	230	**62112**	AJ4461A	A
C2516	115	**62117**	AJ7441A	A
C2516	230	**62118**	AJ7441A	A
C2616	115	**62113**	AJ2425A	A
C2616	230	**62114**	AJ2425A	A
CAJ2612	115	**62110**	AJ4461A	
CAJ2612	230	**62112**	AJ4461A	
CAJ2P	115	**62110**	AJ4461A	
CAJ2P	230	**62112**	AJ4461A	
CAJ2T12	115	**62113**	AJ2425A	
CAJ2T12	230	**62114**	AJ2425A	
S2614	115	**62164**	AK5470E	M
S2N14	115	**62164**	AK5470E	M
S2N16	115	**62111**	AJ1420E	A
S6N14	115	**62164**	AE5470E	M
S2S16	115	**62110**	AJ4461A	A
S2R16	115	**62110**	AJ4461A	A
S2T16	115	**62110**	AJ4461A	A

DO NOT ATTEMPT TO OPERATE COMPRESSOR WITHOUT TERMINAL COVER IN PLACE

SEE SEPARATE PRICE LIST

Old Model	Description	Our No.	Current Model	Base Needed
3/4 HP				
AE5470E	115	**62164**	AK5470E	
AH2435A	230	**62163**	AH2435A	
AJ3	115	**62164**	AK5470E	H
AJ4	115	**62164**	AK5470E	H
AJ14	115	**62164**	AK5470E	H
AJ16	115	**62165**	AK5483E	H
AJ16	230	**62166**	AK5483E	H
AJ4492A	115	**62155**	AJ4492A	
AJ4492A	230	**62156**	AJ4492A	
AJ5471E	115	**62164**	AK5470E	H
AJ5483E	115	**62165**	AK5483E	H
AJ5483E	208-230	**62166**	AK5483E	H
AJ7465A	115	**62153**	AJ7465SA	
AJ7465A	230	**62154**	AJ7465B	
AK5483E	115	**62165**	AK5483E	
AK5483E	208-230	**62166**	AK5483E	
AU3	115	**62119**	AE5460E	L
AU4	115	**62164**	AE5470E	L
AU14	115	**62164**	AE5470E	L
AU16	115	**62165**	AK5483E	L
AU16	230	**62166**	AK5483E	L
B7T16	230	**62163**	AH2435A	
B1716	R12-115	**62155**	AJ4492A	A
B7413	115	**62165**	AK5483E	M
B7413	230	**62166**	AK5483E	M
B7516	R12-115	**62155**	AJ4492A	A
B7516	R12-230	**62156**	AJ4492A	A
B7613	R12-230	**62156**	AJ4492A	A
B7616	R12-115	**62155**	AJ4492A	A
B7616	R12-230	**62156**	AJ4492A	A
B8413	115	**62165**	AK5483E	M
B8513	115	**62165**	AK5483E	M
B8513	208-230	**62166**	AK5483E	M
C7616	R12-115	**62155**	AJ4492A	A
C7616	R12-230	**62156**	AJ4492A	A
C7P16	115	**62153**	AJ7465A	A
C7P16	230	**62154**	AJ7465B	A
C7T16	230	**62163**	AH2435A	
CAJ7R13	115	**62155**	AJ4492A	
CAJ7R13	230	**62156**	AJ4492A	
HA75	230	**62163**	AH2435A	D
JA75	230	**62163**	AH2435A	D
S2614	115	**62164**	AK5470E	M
S2N14	115	**62164**	AK5470E	M
S6N14	115	**62164**	AK5470E	M
S7N16	115	**62165**	AK5483E	M
S7N16	208-230	**62166**	AK5483E	M
S7R16	115	**62165**	AK5483E	M
S7R16	208-230	**62166**	AK5483E	M
S8N16	115	**62164**	AK5470E	M
1 HP				
AH2445A	230	**62204**	AH2445A	
AH7480A	208-230	**62203**	AH7480A	
AH7480A	230-3	**62205**	AH7480A	
AJ1612	115	**62207**	AK5510E	H
AJ1612	208-230	**62208**	AK5510E	H
AJ1M12	115	**62207**	AK5510E	H
AJ1M12	208-230	**62208**	AK5510E	H
AJ1P	115	**62207**	AK5510E	H
AJ1P	208-230	**62208**	AK5510E	H
AJ1P12	208-230	**62210**	AK5512E	H
AJ1P13	208-230	**62210**	AK5512E	H
AJ13	115	**62207**	AK5510E	H
AJ1R	208-230	**62208**	AK5510E	H
AJ1R12	208-230	**62210**	AK5512E	H
AJ1S	208-230	**62208**	AK5510E	H
AJ1Q	115	**62207**	AK5510E	H
AJ1Q	208-230	**62208**	AK5510E	H
AJ1T	208-230	**62210**	AK5512E	H
AJ4512A	230	**62196**	AJ4512A	
AJ5510F	115	**62207**	AK5510E	H
AJ5510F	208-230	**62208**	AK5510E	H
AJ5512F	208-230	**62210**	AK5512E	H
AK5510E	115	**62207**	AK5510E	
AK5510E	208-230	**62208**	AK5510E	
AK5511E	115	**62209**	AK5511E	
AK5512E	208-230	**62210**	AK5512E	
AS1T16	115	**62207**	AK5510E	M
AS1T16	230	**62208**	AK5510E	M
AU1612	115	**62207**	AK5510E	L
AU1612	208-230	**62208**	AK5510E	L
AU1M12	115	**62207**	AK5510E	L
AU1M12	208-230	**62208**	AK5510E	L
AU1P12	208-230	**62210**	AK5512E	L
B1516	208-230	**62210**	AK5512E	L
1 HP				
B1613	208/220	**62210**	AK5512E	M
B1613	115	**62209**	AK5511E	M
B5512E	115	**62209**	AK5511E	M
B5512E	208-230	**62208**	AK5510E	M
B1T16	Med230	**62203**	AH7480A	
B1T16	High230	**62196**	AJ4512A	A
B1T16	Med 230-3	**62205**	AH7480A	
B1U18	230	**62204**	AH2445A	D
HA100	230	**62196**	AJ4512A	D
HB100	230	**62204**	AH2445A	D
JA100	230	**62196**	AJ4512A	D
JB100	230	**62204**	AH2445A	D
S1T16	115	**62207**	AK5510E	M
S1T16	230	**62208**	AK5510E	M
AH7480A	208-230	**62203**	AH7480A	
1¼ HP				
AJR13	208-230	**62233**	AJ5515F	
AJ1R12	208-230	**62233**	AJ5515F	
AJ5515F	208-230	**62233**	AJ5515F	
AJT12	208-230	**62233**	AJ5515F	
AUR13	208-230	**62233**	AJ5515F	
B1616	208-230	**62233**	AJ5515F	
B32M16	208-230	**62233**	AJ5515F	
1½ HP				
AH4518A	230	**62242**	AH4518A	
AH4518A	230-3	**62247**	AH4518A	
AH20L12	230	**62272**	AJ5519G	
AH20S13	230	**62242**	AH4518A	
AH20S13	230-3	**62247**	AH4518A	
AH2466A	230-3	**62251**	AH2466A	
AH7511A	230	**62246**	AH7511A	
AH7511A	230-3	**62248**	AH7511A	
AJ5517E	208-230	**62250**	AJ5517E	
AJR15	230	**62250**	AJ5517E	
AJT15	208-230	**62272**	AJ5519G	
B32P16	208-230	**62250**	AJ5517E	
B32T16	208-230	**62250**	AJ5517E	
B32U18	230	**62242**	AH4518A	D
HA150	230	**62274**	AB5519F	D
HB150	230	**62242**	AH4518A	D
HB150	230-3	**62247**	AH4518A	D
JA150	230	**62274**	AB5519F	D
JB150	230	**62242**	AH4518A	D
JB150	230-3	**62247**	AH4518A	D
JE150	230	**62249**	AH2466A	D
JE150	230-3	**62251**	AH2466A	D
JG150	230	**62246**	AH7511A	D
JG150	230-3	**62248**	AH7511A	D
1¾ HP				
AH20L12	208-230	**62274**	AB5519F	
AB5519F	208-230	**62274**	AB5519F	
AH5519E	208-230	**62274**	AB5519F	
AJ5519E	208-230	**62272**	AJ5519G	
AJ5519G	208-230	**62272**	AJ5519G	
B74P18	208-230	**62272**	AJ5519G	A
B74T16	208-230	**62272**	AJ5519G	A
B74T18	208-230	**62272**	AJ5519G	A

Note: No 62272-AJ5519G Should not be used on remote unit installations. Use No. 62274-AB5519F.

Old Model	Description	Our No.	Current Model	Base Needed
2 HP				
AH22M12	208-230	**62290**	AH5524E	
AH24P12	208-230	**62290**	AH5524E	
AH24P12V	208-230	**62290**	AH5524E	
AH24P12V	230-3	**62286**	AH5524E	
AH4525A	208-230	**62285**	AH4525A	
AH4525A	230-3	**62291**	AH4525A	
AH5524E	208-230	**62290**	AH5524E	
AH5524E	208-230	**62296**	AB5524F	
AH5524E	230-3	**62286**	AH5524E	
AH7511A	208-230	**62246**	AH7511A	
B02A	208-230	**62290**	AH5524E	
B02B	208-230	**62290**	AH5524E	
B02D	230	**62290**	AH5524E	
B21T18	208-230	**62290**	AH5524E	
B24U18	208-230	**62290**	AH5524E	
CL26ZA14	230	**62285**	AH4525A	
CL26ZA14	230-3	**62291**	AH4525A	
CL26Y14	230	**62285**	AH4525A	
HB200	230	**62290**	AH5524E	D
HB200	230-3	**62286**	AH5524E	D
HC200	230	**62290**	AH5524E	D
HD200	230	**62285**	AH4525A	D
HD200	230-3	**62291**	AH4525A	D
JB200	230	**62290**	AH5524E	D
JB200	230-3	**62286**	AH5524E	D
JE200	230	**62285**	AH4525A	D
JE200	230-3	**62291**	AH4525A	D
2¼ HP				
AH28Q13	208-230	**62327**	AH5527E	
AH28Q13V	208-230	**62327**	AH5527E	
AH5527E	208-230	**62327**	AH5527E	
JG200	230	**62327**	AH5527E	D
2½ HP				
AH31S13	208-230	**62328**	AH5531E	
AH31T13	208-230	**62328**	AH5531E	
AH5531E	208-230	**62328**	AH5531E	
AH5531E	230-3	**62326**	AH5531E	
AH31T13	230-3	**62326**	AH5531E	
CL25X12	230	**62328**	AH5531E	D
CL25X12	230-3	**62326**	AH5531E	D
CL26X12	230	**62328**	AH5531E	D
CL26X12	230-3	**62326**	AH5531E	D
AH34X13	230	**62328**	AH5531E	
3 HP				
AG4534A	230	**62341**	AG4534A	
AG4534A	230-3	**62342**	AG4534A	
AH40X15	230	**62337**	AH5540E	
AH40X15	230-3	**62336**	AH5540E	
AH40X15	440-3	**62338**	AH5540E	
AH5540E	208-230	**62337**	AH5540E	
AH5540E	230-3	**62336**	AH5540E	
CL30Y14	230	**62337**	AH5540E	
CL30Y14	230-3	**62336**	AH5540E	
CL31Y14	230	**62337**	AH5540E	
CL31Y14	230-3	**62336**	AH5540E	
CL31Y14	440-3	**62338**	AH5540E	
CL31ZC17	230	**62341**	AG4534A	
CL31ZC17	230-3	**62342**	AG4534A	

SEE SEPARATE PRICE LIST

Compressors/Condensing Units

Model No.	Description	Our No.	Current Model	Base Needed
CL31ZH17	230	**62341**	AG4534A	
CL31ZH17	230-3	**62342**	AG4534A	
CL32ZA14	230	**62337**	AH5540E	
CL32ZA14	230-3	**62336**	AH5540E	
CL4532A	230	**62341**	AG4534A	
CL4532A	230-3	**62342**	AG4534A	
FB300	230	**62341**	AG4534A	C
FB300	230-3	**62342**	AG4534A	C
FE300	230	**63120**	AH2513AT	
FE300	230-3	**63121**	AH2513AT	
HD300	230	**62337**	AH5540E	
HD300	230-3	**62336**	AH5540E	D
JE300	230	**62337**	AH5540E	D
JE300	230-3	**62336**	AH5540E	D
JG300	230	**62328**	AH5531E	D
JG300	230-3	**62326**	AH5531E	D
JE301	230	**62337**	AH5540E	D
JE301	230-3	**62336**	AH5540E	D
PJE300	230	**62337**	AH5540E	D
PJE300	230-3	**62336**	AH5540E	D
PJE301	230	**62337**	AH5540E	D
PJE301	230-3	**62336**	AH5540E	D
PJG300	230	**62328**	AH5531E	D
PJG300	230-3	**62326**	AH5531E	D

3 HP				
PJG301	230	**62328**	AH5531E	D
PJG301	230-3	**62326**	AH5531E	D
3½ HP				
CL35ZC14	230	**62362**	AG5546E	
CL35ZC14	230-3	**62363**	AG5546E	
CL36ZC14	230	**62362**	AG5546E	
CL36ZC14	230-3	**62363**	AG5546E	
CL5544F	230	**62362**	AG5546E	
CL5544F	230-3	**62363**	AG5546E	
4 HP				
AG5553E	230	**62385**	AG5553E	
AG5553E	230-3	**62386**	AG5553E	
AG5553F	440-3	**62387**	AG5553F	
CL40ZA17	230	**62385**	AG5553E	
CL40ZA17	230-3	**62386**	AG5553E	
CL41ZA17	230	**62385**	AG5553E	
CL41ZA17	230-3	**62386**	AG5553E	
CL41ZA17	440-3	**62387**	AG5553F	
CL5550G	230	**62385**	AG5553E	
CL5550G	230-3	**62386**	AG5553E	
CL5550G	440-3	**62387**	AG5553F	
PFB400	230	**62385**	AG5553E	C
PFB400	230-3	**62386**	AG5553E	C
PFB403	230	**62385**	AG5553E	C
PFB403	230-3	**62386**	AG5553E	C

5 HP				
AG5561E	230	**62414**	AG5561E	
AG5561E	230-3	**62415**	AG5561E	
AG5561F	440-3	**62416**	AG5561F	
CL5562G	230	**62414**	AG5561E	
CL5562G	230-3	**62415**	AG5561E	
CL5562G	440-3	**62416**	AG5561F	
CL51ZH17	230	**62414**	AG5561E	
CL51ZH17	230-3	**62415**	AG5561E	
CL51ZH17	440-3	**62416**	AG5561F	
FB500	230	**62414**	AG5561E	C
FB500	230-3	**62415**	AG5561E	C
FB503	230	**62414**	AG5561E	C
FB503	230-3	**62415**	AG5561E	C
PFB500	230	**62414**	AG5561E	C
PFB500	230-3	**62415**	AG5561E	C
PFB503	230	**62414**	AG5561E	C
PFB503	230-3	**62415**	AG5561E	C
AG5568	230	**62430**	AG5568E	
AG5568	230-3	**62431**	AG5568E	
AG5568	440-3	**62432**	AG5568E	
6 HP			Dual Compressors	
CL31ZC17	230	**62440**	AG4568AT	
CL31ZC17	230-3	**62441**	AG4568AT	
CL4564AT	230	**62440**	AG4568AT	
CL4564AT	230-3	**62441**	AG4568AT	

Tecumseh High Temperature Air Cooled Condensing Units With Normal Starting Torque For Capillary Tube For R-12 Refrigerant 115 Volt 60C Single Phase

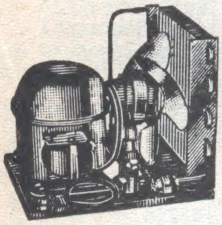


Fig. 1

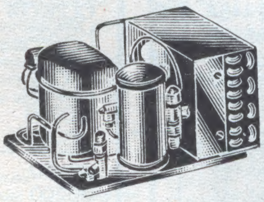


Fig. 2

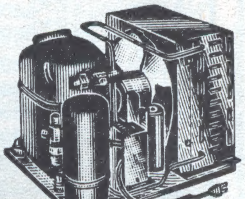


Fig. 4

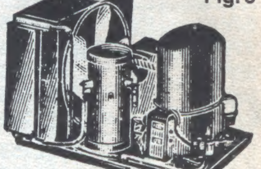


Fig. 5

No.	Fig.	Refrig.	H.P.	Tecumseh	In Inches: Suct.	In Inches: Liq.	Overall Inches: Wide	Long	High	BTU Capacity At 90° F Ambient: 25°	30°	35°	40°	Ship. Wt. Lbs.
62520P	1	R-12	1/6	AE3414AA	⅜ SAE	⅜ SAE	11⅝	11¾	10	1110	1210	1315	1425	32
62530P	1	R-12	1/5	AE3417AA	⅜ SAE	⅜ SAE	11¼	12¾	10	1235	1355	1495	1645	37
62532P	1	R-12	1/5	AE3425AA	⅜ SAE	⅜ SAE	11¼	12¾	10	1725	1875	2025	2200	33

Tecumseh Low Temperature Air Cooled Condensing Units With Normal Starting Torque For Capillary Tube 115 Volt 60 Cycle Single Phase

										-20°	-10°	0°	+10°	
62500P	1	R-12	1/8	AE1336AA	⅜ SAE	⅜ SAE	11⅝	11¾	10	320	450	590	740	32
62521P	1	R-12	1/6	AE1343AA	⅜ SAE	⅜ SAE	11¼	12¾	10	400	545	700	855	34
62531P	1	R-12	1/5	AE1360AA	⅜ SAE	⅜ SAE	11¼	12¾	10	525	700	885	1090	36

Tecumseh High Temperature Air Cooled Condensing Units With Higher Starting Torque Used With Expansion Valve Or Capillary Tube 60 Cycle Single Phase

No.	Fig.	For R-12 Refrigerant: H.P.	Volt	Tecumseh	Wired With BX Cable & Connectors	Receiver Capacity	SAE Suct.	SAE Liq.	Overall Inches: Wide	Long	High	BTU Capacity At 90°F Ambient: 20°	25°	30°	40°	Ship Wt. Lbs.
62551P	1	¼	115	AE4430AA	No	None	⅜"	⅜"	11¼	13⅛	9¾	2030	2180	2375	2830	40
62553P	2	¼	115	AE4430AB	No	2.4 Lb.	⅜"	¼"	13¼	16¼	9	2030	2180	2375	2830	48
62555P	2	¼	115	AE4430AC	Yes	2.4 Lb.	⅜"	¼"	13¼	18⅜	9	2030	2180	2375	2830	52
62582P	1	⅓	115	AE4440AL	No	None	⅜"	⅜"	13¼	17¼	9	2540	2780	3020	3530	40
62583P	2	⅓	115	AE4440AB	No	2.4 Lb.	⅜"	¼"	13¼	17¼	9	2540	2780	3020	3530	50
62585P	2	⅓	115	AE4440AC	Yes	2.4 Lb.	⅜"	¼"	13¼	19½	9	2540	2780	3020	3530	55
62586P	2	⅓+	115	AE4448AC	Yes	3.8 Lb.	⅜"	¼"	14	16⅜	11	2950	3350	3700	4470	56
62610P	4	½	115	AJ4461AB	No	3.2 Lb.	½"	¼"	14	16⅜	11¾	3800	4175	4525	5300	82
62620P	4	½	115	AJ4461AC	Yes	3.2 Lb.	½"	¼"	14	16⅜	11¾	3800	4175	4525	5300	82
62612P	4	½	230/208	AJ4461AC	Yes	3.2 Lb.	½"	¼"	14	16⅜	11¾	3800	4175	4525	5300	82

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Tecumseh Medium Temperature Condensing Units With Higher Starting Torque Used With Expansion Valve Or Capillary Tube 60 Cycle Single Phase

No.	Fig.	Refrig.	H.P.	Volt	Tecumseh	Receiver Capacity	In Inches		Overall Inches			BTU Capacity At 90°F Ambient				Ship. Wt. Lbs.
							Suct.	Liq.	Wide	Long	High	0°	10°	20°	30°	
62622P	4	R-12	½	115	AJ7441AC	3.2 Lb.	½ SAE	¼ SAE	14	16 5/16	11⅜	2860	3600	4110	4820	75
62623P	4	R-12	½	230/208	AJ7441AC	3.2 Lb.	½ SAE	¼ SAE	14	16 5/16	11⅜	2860	3600	4110	4820	75
62650P	4	R-12	¾	115	AJ7465AC	6 Lb.	⅝ SAE	¼ SAE	17	24	13	4260	5355	6560	7200	115
62651P	4	R-12	¾	230/208	AJ7465BC	6 Lb.	⅝ SAE	¼ SAE	14	21½	13	4260	5355	6560	7200	100
62691Y	5	R-12	1	230/208	AH7480AC	6 Lb.	⅝ OD	⅜ SAE	17	24	14⅝	5300	7100	8600	10100	140
90036Y	5	R-12	1½	230/208	AH7511BC	8¾ Lb.	⅝ OD	⅜ SAE	19⅜	24	16⅛	8300	10400	12800	14250	150
90046Y	5	R-12	2	230/208	AH7514AC	8¾ Lb.	⅞ OD	⅜ SAE	19½	24	16⅛	9500	11500	14000	16800	230
90052Y	—	R-502	3	230	AH7524JC	13.5 Lb.	⅞ OD	½ SAE	25	33½	19½	16000	19500	24000	27000	232

60 Cycle 3 Phase

No.	Fig.	Refrig.	H.P.	Volt	Tecumseh	Receiver Capacity	Suct.	Liq.	Wide	Long	High	0°	10°	20°	30°	Ship. Wt. Lbs.
62693Y	5	R-12	1	230/208	AH7480AC	6 Lb.	⅝ OD	⅜ SAE	17	24	14⅝	5300	7100	8600	10100	135
90037Y	5	R-12	1½	230/208	AH7511AC	8¾ Lb.	⅝ OD	⅜ SAE	19⅜	24	16⅛	8300	10400	12800	14250	145
90047Y	5	R-12	2	230/208	AH7514AC	8¾ Lb.	⅞ OD	⅜ SAE	19½	24	16⅛	9500	11500	14000	16800	230
90049Y	5	R-502	2	230/208	AH7515JC	7.9 Lb.	⅞ OD	⅜ SAE	19½	25	16⅛	10000	12000	15000	17500	140
90053Y	—	R-502	3	230/208	AH7524JC	13.5 Lb.	⅞ OD	½ SAE	25	33½	19½	16000	19500	24000	27000	232

Tecumseh Low Temperature Condensing Units With Higher Starting Torque Used With Expansion Valve Or Capillary Tube 60 Cycle Single Phase

No.	Fig.	Refrig.	H.P.	Volt	Tecumseh	Receiver Capacity	In Inches		Overall Inches			BTU Capacity At 90°F Ambient				Ship. Wt. Lbs.
							Suct.	Liq.	Wide	Long	High	-20°	-10°	0°	+10°	
62554P	—	R-12	¼	115	AE2410AC	2.4 Lb.	⅜ SAE	¼ SAE	13¼	19⅜	9	900	1250	1600	2000	52
62584P	—	R-12	⅓	115	AE2415AC	2.4 Lb.	⅜ SAE	¼ SAE	13¼	19⅜	9	1380	1800	2200	2600	55
62614P	4	R-12	½	115	AJ2425AB	2.4 Lb.	½ SAE	¼ SAE	14	16 5/16	11½	2160	2780	3400	4160	78
62615P	4	R-12	½	115	AJ2425AC	2.4 Lb.	½ SAE	¼ SAE	14	16 5/16	11½	2160	2780	3400	4160	80

(No. 62615P Is Wired With BX Cable And Has BX Connections)

No.	Fig.	Refrig.	H.P.	Volt	Tecumseh	Receiver Capacity	Suct.	Liq.	Wide	Long	High	-20°	-10°	0°	+10°	Ship. Wt. Lbs.
62616P	4	R-12	½	230/208	AJ2425AC	2.4 Lb.	½ SAE	¼ SAE	14	16 5/16	11½	2160	2780	3400	4160	80
62659P	5	R-12	¾	230/208	AH2435AC	6 Lb.	⅝ Sol.	¼ SAE	17	25	14¾	3050	4100	5200	6300	135
62696Y	5	R-12	1	230/208	AH2445AC	6 Lb.	⅝ Sol.	¼ SAE	18	25	16	3750	4900	6200	7600	135
90034Y	5	R-12	1½	230/208	AH2466AC	8¾ Lb.	⅞ Sol.	⅜ SAE	19½	25	16	5200	6900	8800	10950	145
90044Y	5	R-502	2	230	AH2511KC	7¾ Lb.	⅞ OD	⅜ SAE	19½	25	16¼	8500	10700	13300	16300	145
90054Y*	—	R-502	2	230	AH2512KM	12 Lb.	⅞ OD	⅜ SAE	33½	25	19½	9800	12200	15100	19400	252

*With Suction Accumulator and Filter

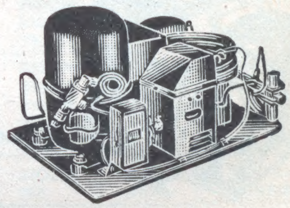
60 Cycle 3 Phase

No.	Fig.	Refrig.	H.P.	Volt	Tecumseh	Receiver Capacity	Suct.	Liq.	Wide	Long	High	-20°	-10°	0°	+10°	Ship. Wt. Lbs.
62697Y	5	R-12	1	230/208	AH2445AC	6 Lb.	⅝ Sol.	¼ SAE	18	25	16	3750	4900	6200	7600	135
90035Y	5	R-12	1½	230/208	AH2466AC	8¾ Lb.	⅞ Sol.	⅜ SAE	19½	25	16	5200	6900	8800	10950	145
90045Y	5	R-502	2	230/208	AH2511KC	7¾ Lb.	⅞ OD	⅜ SAE	19½	25	16¼	8500	10700	13300	16300	145
90055Y*	—	R-502	2	230/208	AH2512KM	12 Lb.	⅞ OD	⅜ SAE	33½	25	19½	9800	12200	15100	19400	252

Tecumseh Water Cooled Hermetic Condensing Units

For Medium Back Pressure R-12 115V 60C Single Phase Receiver Capacity 6 lb.

R-12 All Water Inlet 3/8" Fem. I PT. Outlet 1/2" OD



No.	H.P.	Tecumseh	Refrig.	In Inches		Overall Inches			BTU Capacity				Wt. Lbs.
				Suct.	Liq.	Wide	High	Long	0°	10°	20°	30°	
62626P	½	AJ7441AW	R-12	½ SAE	¼ SAE	17	11½	24	2810	3800	4980	6280	110
62657P	¾	AJ7465AW	R-12	⅝ SAE	¼ SAE	17	12	24	4580	6220	7990	9860	115

3500 RPM Compressor 230/208V 60C Single Phase

No.	H.P.	Tecumseh	Refrig.	Suct.	Liq.	Wide	High	Long	0°	10°	20°	30°	Wt. Lbs.
62627P	½	AJ7441AW	R-12	½ SAE	¼ SAE	17	11½	24	2810	3800	4980	6280	110
62658P	¾	AJ7465BW	R-12	⅝ SAE	¼ SAE	17	12	24	4580	6220	7990	9860	115
90020Y	1	AH7480AW	R-12	⅝ OD	¼ SAE	17	14¾	24	5700	7800	10400	13390	128
90030Y	1½	AH7511BW	R-12	⅝ OD	¼ SAE	17	14¾	24	8300	11300	14600	18250	135
90040Y	2	AH7514AW	R-12	⅞ OD	⅜ SAE	17	25	16	10150	13200	16400	20200	140

3500 RPM Compressor 240/208V 60C Three Phase

No.	H.P.	Tecumseh	Refrig.	Suct.	Liq.	Wide	High	Long	0°	10°	20°	30°	Wt. Lbs.
90021Y	1	AH7480AW	R-12	⅝ OD	¼ SAE	18	14¾	24	5700	7800	10400	13390	128
90031Y	1½	AH7511AW	R-12	⅝ OD	¼ SAE	17	14¾	24	8300	11300	14600	18250	135
90041Y	2	AH7514AW	R-12	⅞ OD	⅜ SAE	17	16	25	10150	13200	16400	20200	140

SEE SEPARATE PRICE LIST

Condensing Units

continued from page 7

For Low Back Pressure Freezer Range for 230/208V 60C Single Phase Receiver Capacity 6 Lbs. All Water Inlet 3/8" Fem. IPT-Outlet 1/2" OD

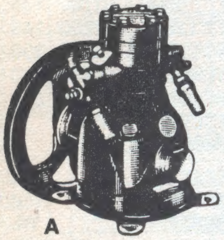
No.	H.P.	Tecumseh	Refrig.	In Inches		Overall Inches			BTU Capacity				Wt.
				Suct.	Liq.	Wide	High	Long	-30°	-20°	-10°	+10°	Lbs.
62660P	¾	AH2435AW	R-12	⅝ OD	⅜ SAE	20	16	25	1540	2660	3980	6930	122
90022Y	1	AH2445AW	R-12	⅝ OD	⅜ SAE	20	16	25	1870	3300	5100	8990	127
90032Y	1½	AH2466AW	R-12	⅞ OD	⅜ SAE	20	16	25	3600	5400	7300	12200	135
90042Y	2	AH2511KW*	R-502	⅞ OD	⅜ SAE	20	16	25	8600	12000	15500	22000	141

*90042 For 230V. 60C Single Phase Only

3500 RPM Compressor 240/208V 60C Three Phase

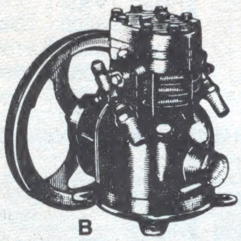
No.	H.P.	Tecumseh	Refrig.	Suct.	Liq.	Wide	High	Long	-30°	-20°	-10°	+10°	Wt. Lbs.
90023Y	1	AH2445AW	R-12	⅝ OD	⅜ SAE	20	16	25	1870	3300	5100	8990	122
90033Y	1½	AH2466AW	R-12	⅞ OD	⅜ SAE	20	16	25	3600	5400	7300	12200	135
90043Y	2	AH2511KW	R-502	⅞ OD	⅜ SAE	20	16	25	8600	12000	15500	22000	141

Tecumseh Open Type Compressors
A Complete Line From 1/6 H.P. to 20 H.P. For Freon 12



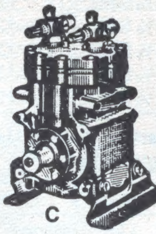
A

Old Model 1300-500
New Model CB-CA



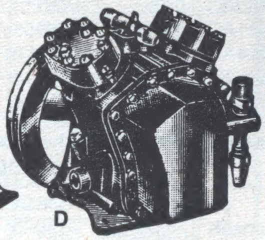
B

Old Models 1400-1000-2300
New Models CD-CC-CE



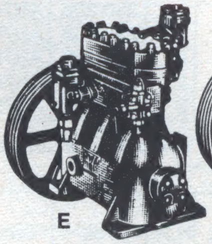
C

Old Model HGC
New Model CG



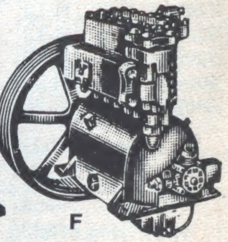
D

Old Model VFT-VFTL
New Models CH-CJ



E

Old Model RA
New Model CK



F

Old Model SA
New Model CM

Compressor bodies are made of a semi-steel casting, carefully tested, dehydrated, and supplied with refrigerant oil. Compressors have washer type suction valves, and valve plates are flat and compact without valve cages.

Complete With Flywheel

No.	H.P.	Cyl.	New Model	Old Model	Bore	Stroke	Suct. Conn.	Disch. Conn.	Flywheel	Mtg. Hole Parallel To Shaft	Centers Parallel To Flywheel	Oil Charge	Ship. Wt. Lbs.
20341L	1/6	1	CB	1300	1¼"	1¼"	⅜" SAE	⅜" SAE	8½"-1A	5"	5"	12 oz.	32
20340L	1/4	1	CA	500	17/16"	17/16"	⅜" SAE	⅜" SAE	8½"-1A	5"	5"	12 oz.	32
20343L	1/4	2	CD	1400	1¼"	1¼"	⅜" SAE	⅜" SAE	8½"-1B	5"	5"	18 oz.	39
20342L	1/3	2	CC	1000	17/16"	17/16"	⅜" SAE	⅜" SAE	9⅝"-1B	5"	5"	18 oz.	39
20344L	1/2	2	CE	2300	1½"	17/16"	½" SAE	⅜" SAE	8½"-1B	5"	5"	18 oz.	39
36964L	2-3	4	CJ	VFTL	1¾"	1¾"	1⅛" OD	⅝" SAE	10½"-2B	5⅝"	7⅝"	40 oz.	123
90000Y	5-10	3	CK	RA	3¼"	3"	1⅜" OD	1⅜" OD	15¾"-4B	11-1/16"	9"	8 Pts.	311
90001Y	7½-20	3	CM	SA	4"	4¼"	2⅛" OD	1⅝" OD	22½"-6B	14"	12"	14 Pts.	544
36963L	¾-1½	2	CG	HGC1000	1⅞"	1⅞"	⅝" SAE	½" SAE	8¾"-2A	4-3/16"	6 5/8"	20 oz.	36

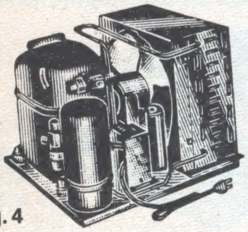


Fig. 4

Tecumseh High Temperature Condensing Units With Higher Starting Torque
Used With Expansion Valve Or Capillary tube
60 Cycle Single Phase

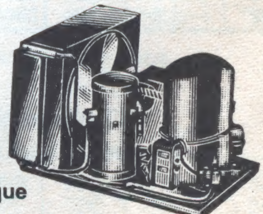


Fig.5

No.	Fig.	Refrig.	H.P.	Volt	Model	Receiver Capacity	In Inches		Overall Inches			BTU Capacity At 90°F Ambient				Ship Wt.
							Suct.	Liq.	Wide	Long	High	20°	25°	30°	40°	Lbs.
62652P	4	R-12	¾	115	AJ4492AC	6 Lb.	⅝ SAE	⅜ SAE	13¾	21⅜	12 13/16	5800	6380	6950	8200	96
62653P	4	R-12	¾	230/208	AJ4492AC	6 Lb.	⅝ SAE	⅜ SAE	13¾	21⅜	12 13/16	5800	6380	6950	8200	96
62690Y	4	R-12	1	230/208	AJ4512AC	6 Lb.	⅝ SAE	⅜ SAE	17¾	24	13⅛	7400	8200	9000	10800	118
62730Y	5	R-12	1½	230/208	AH4518AC	8¾ Lb.	⅞ SAE	⅜ SAE	19⅜	24	16⅛	10900	12300	13600	16200	137
62782Y	7	R-12	2	230/208	AH4525AC	15½ Lb.	⅞ OD	½ SAE	25	33½	19¾	16000	17800	19500	23200	220
62839Y	7	R-12	3	230/208	AG4534AM	13 Lb.	⅞ OD	½ SAE	25	33½	19¾	21000	22800	25800	31300	270
90060Y	—	R-12	4	230/208	AG4547AM	32 Lb.	⅞ OD	½ SAE	29	45	27	28700	32000	35700	43000	340

60 Cycle three Phase

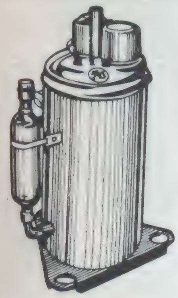
No.	Fig.	Refrig.	H.P.	Volt	Model	Receiver Capacity	Suct.	Liq.	Wide	Long	High	20°	25°	30°	40°	Ship Wt. Lbs.
62736Y	5	R-12	1½	240/208	AH4518AC	8¾ Lb.	⅞ OD	⅜ SAE	19⅜	24	16⅛	10900	12300	13600	16200	137
62784Y	—	R-12	2	240/208	AH4525AC	15½ Lb.	⅞ OD	½ SAE	25	33½	19¾	16000	17800	19500	23200	238
62840Y	—	R-12	3	230/200	AG4534AM	13 Lb.	⅞ OD	½ SAE	25	33½	19¾	21000	22800	25800	31300	270
90061Y	—	R-12	4	230/200	AG4547AM	32 Lb.	⅞ OD	½ SAE	29	45	27	28700	32000	35700	43000	333

SEE SEPARATE PRICE LIST

AN Hermetic Condensing Units All for R22 60Cy 3 Phase Air Cooled High Evaporator Temperature

No.	Tecumseh Model	HP	Voltage	Receiver Capacity	In Inches		Overall Inches			BTU Capacity At 90°F Ambient				Ship Wt.
					Suct.	Liq.	Wide	Long	High	20°	25°	30°	40°	Lbs.
90088Y	AN4590GM	8	230/200	30 Lbs.	1⅜"s.	½" SAE	28.5"	44.8"	36.9"	52,050	60,500	68,000	86,500	468
90089Y	AN4590GM	8	460	30 Lbs.	1⅜"s.	½" SAE	28.5"	44.8"	36.9"	52,050	60,000	68,000	86,500	468
90098Y	AN4612EM	10	230/200	36 Lbs.	1⅜"s.	½" SAE	28.5"	44.8"	36.9"	70,150	81,000	91,100	110,800	500
90099Y	AN4612EM	10	460	36 Lbs.	1⅜"s.	½" SAE	28.5"	44.8"	36.9"	70,150	81,000	91,100	110,800	500

Rotary Compressors



These compressors are designed for use with R-22 only, for air conditioning application. All models shown come with attached suction accumulator. Connections are 3/8" I.D. suction and 1/4" I.D. discharge. Quiet running with PSG type motor. These compressors can be used for replacement of other rotary type compressors from other manufacturers, if capacitors, size and electrical specifications are similar. Also mounting tubing connections may vary, and capacitor must be changed.

Compressors are fully dehydrated and sealed and come with full oil charge. They come with motor protector, mounting parts and instructions. Dimensions of 80110 and 80111 are 4.33" body dimension by 10" high. Number 80112 through 80117 have a 5.22" body dimension and 12.5" to 13" high. All motors have three leg mounts 120° apart.

No.	Model	Capacity BTU	Single Phase Voltage	Amps.	E.E.R.	Height Requirement	Mounting Feet Triangular	Run Capacitor	Shpg. Wt.
80113	ACH2102U	10600	230/208	4.8	10.0	11.5"	6" on centers	30/370	30 lbs.
80114	ACH2131U	12700	115	11.2	9.8	12.2"	6" on centers	30/370	32 lbs.
80115	ACH2132U	12800	230/208	5.6	9.9	12.2"	6" on centers	30/370	32 lbs.
80116	ACH2152U	14700	230/208	6.6	9.6	12.5"	6" on centers	30/370	34 lbs.
80117	ACH2182U	17540	230/208	7.8	10.0	13"	6" on centers	30/370	34 lbs.

Electrical Service Parts For Tecumseh Compressors

This is almost a complete listing of electrical service parts for Tecumseh Compressors. We do not show some compressors made for special voltages and for some special applications. This list is arranged alphabetically according to model numbers. Older models that have been replaced by current production can be found in the second column.

A-Air Conditioning
F-Fan Cooled
H-High Temperature
L-Low Temperature
M-Medium Temperature
P-Heat Pump
S-Static Cooled

Opposite your selected compressor with the proper voltage and application we show our number for the exact factory replacement overload and relay. Prices for these relays and overloads are listed on our page titled Tecumseh Electrical Parts Guide. We also show the proper Harry Alter "Old Reliable" start capacitor and prices on the pages listing the "Old Reliable" capacitors. The exact factory replacement relays have the proper electrical ratings but sometimes need one of the Tecumseh Adapter-Paks to complete the installation. "+" sign indicates that a solid state relay 35907 will replace many other current relays when a start capacitor is not required.

Most single phase air conditioner compressors are type PSC and only use a run capacitor. To improve starting operation, a relay and start capacitor can be used where marked (*) or a start assist kit No. 35906 PTC can be used where marked (#). All voltages 60 single phase unless marked 3 phase.

All start capacitors should have bleeder resistor 48627 when used with potential relay.

New Mod.	Old Mod.	Volts	Overload	Relay	Start Cap.	Run Cap.
AB5519F		230/208	Internal	***39165**	*48163	49820
AB5519F		200	Internal	***39165**	*48163	49820
AB5519F		265	Internal	***# 39170**	*48183	49863
AB5520F		230/208	Internal	***# 39165**	*48163	49820
AB5520F		200	Internal	***# 39168**	*48163	49820
AB5520F		265	Internal	***# 39170**	*48183	49863
AB5522F		230/208	Internal	***# 39165**	*48163	49820
AB5522F		200	Internal	***# 39165**	*48163	49820
AB5522F		265	Internal	***# 39170**	*48183	49863
AB5524F	AB5528G AB5530G	230/208	Internal	***# 39165**	*48163	49826
AB5524F		200	Internal	***# 39165**	*48163	49826
AB5524F		265	Internal	***# 39170**	*48183	49865
AE1320A	AE20Z5	115	**39473**	**+39186**		
AE1332A	AE12Z7	115	**39473**	**+39187**		
AE1336A	AE8ZA7 (S)	115	**39465**	**+39187**		
AE1336A	AE8ZA7 (F)	115	**39420**	**+39187**		
AE1343A	AE6ZD7 (S)	115	**39431**	**+39152**		
AE1343A	AE6ZD7 (F)	115	**39420**	**+39152**		
AE1360A	AE5ZF9 (F)	115	**39460**	**+39189**	*48113	
AE1360A	AE5ZF9 (S)	115	**39432**	**+39189**	*48113	
AE1380A	AE4ZF11 (S)	115	**39537**	**+39147**		
AE1380A	AE4ZF11 (F)	115	**39460**	**+39147**		
AE1410A	(F)	115	**39514**	**+39121**		
AE1410A	(S)	115	**39436**	**+39121**		
AE1411E		115	**39412**	**39190**	48116	
AE1413A	(S)	115	**39436**	**+39121**		
AE1413A	(F)	115	**39436**	**+39121**		
AE1415E		115	**39437**	**39192**	48116	
AE2410A	(F)	115	**39308**	**39190**	48117	
AE2410A	(S)	115	**39436**	**39190**	48117	
AE2413A	(F)	115	**39308**	**39190**	48117	
AE2413A	(S)	115	**39436**	**39190**	48117	
AE2415A		115	**39312**	**39122**	48118	
AE3414A	AE6ZA7	115	**39460**	**+39152**		
AE3417A	AE5ZA9	115	**39460**	**+39189**	*48113	
AE3425A	AE59ZF9	115	**39412**	**+39147**	*48113	
AE3430A	AE41ZF11 AE41	115	**39412**	**+39190**	*48113	
AE3440A		115	**39436**	**+39191**		
AE4430A	CAE41	115	**39514**	**39190**	48117	
AE4440A		115	**39436**	**39191**	48111	
AE5455E	AE55ZK9	115	**39505**	***#39165**	*48153	49814
AE5460E	AE50ZK10	115	**39505**	***#39165**	*48153	49814
AE5465E	AE65ZK11	115	**39497**	***#39165**	*48153	49814
AE5465E	AE65ZK11	230/208	**39545**	***#39103**	*48175	49814
AE5470E		115	**39497**	***#39165**	*48153	49814
AE8458E	AE5450E	115	**39436**	***#39165**	*48153	49814
AE8475E	AE5465F	115	**39568**	***#39165**	*48153	49814
AH2435A		230/208	Internal	**39113**	48170	
AH2445A		230/208	Internal	**39112**	48170	
AH2466A		230/208	Internal	**39169**	48170	49818
AH2490AT	Dual Comps	230/208	Internal	**39112**	48170	
AH2513AT	Dual Comps	230/208	Internal	**39169**	48170	49818
AH2511K		230/208	Internal	**39169**	48170	49820
AH4518A	AH20S13	230/208	Internal	**39165**	48163	49826
AH4525A		230/208	Internal	**39165**	48163	49826
AH4550AT	Dual Comps	230/208	Internal	**39165**	48163	49826
AH5519E		230/208	Internal	***#39165**	*48163	49820
AH5520E&F	AH20L12 & V	230/208	Internal	***#39165**	*48163	49826
AH5522E&F	AH22M12 & V	230/208	Internal	***#39165**	*48163	49826
AH5522E		265	Internal	***#39168**	*48183	49865
AH5524E&F	AH24P12 & V	230/208	Internal	***#39165**	*48163	49826
AH5524E		265	Internal	***#39168**	*48183	49865
AH5527E&F	AH28Q13 & V	230/208	Internal	***#39165**	*48163	49826
AH5527E		265	Internal	***#39168**	*48183	49865
AH5530E&F	AH31S13 & V	230/208	Internal	***#39165**	*48163	49826
AH5531E&F	AH31T13 & V	230/208	Internal	***#39165**	*48163	49826
AH5531E		265	Internal	***#39168**	*48183	49865
AH5533E		230/208	Internal	***#39165**	*48163	49826
AH5534E&F	AH34X13	208	Internal	***#39165**	*48163	49826
AH5534E&F	AH34X13	230	Internal	***#39165**	*48163	49826
AH5540E&F	AH40X15	230/208	Internal	***#39168**	*48186	49865
AH7480A		230/208	Internal	**39169**	48186	49814
AH7511A		230/208	Internal	**39169**	48186	49820
AH7511B		230/208	Internal	**39165**	48163	49826
AH7514A		230/208	Internal	**39165**	48163	49826
AH8526E		230/208	Internal	***#39165**	*48163	49826
AH8532E		230/208	Internal	***#39165**	*48163	49832
AH8538E		230/208	Internal	***#39165**	*48163	49832
AH8548E		230/208	Internal	***#39168**	*48186	49832
AJ1411E	AJ438	115	**39593**	**39159**		

SEE SEPARATE PRICE LIST

Electricals

New Mod.	Old Mod.	Volts	Overload	Relay	Start Cap.	Run Cap.
AJ1414E	AJ3E	115	**39592**	**39156**		
AJ1416A	AJ3612	115	**39561**	**39161**	48147	
AJ1420E	AJ26	115	**39555**	**39136**	48116	
AJ1420E	AJ26	230/208	**39434**	**39105**	48161	
AJ2416A	CAJ3612	115	**39312**	**39119**	48143	
AJ2416B	CAJ3P	115	**39539**	**39161**	48147	
AJ2425A	CAJ2T12	115	**39557**	**39154**	48148	
AJ3492A	AJ7R13	230	**39544**	**39161**	48158	
AJ4443A	CAJ34	115	**39539**	**39161**	48147	
AJ4461A	CAJ2612	115	**39571**	**39127**	48146	
AJ4461A	CAJ2612	230/208	**39545**	**39129**	48161	
AJ4461B	CAJ2P	115	**39578**	**39136**	48143	
AJ4461B	CAJ2P	230/208	**39582**	**39129**	48160	
AJ4492A	CAJ7R13	115	**39502**	**39107**	48120	
AJ4492A	CAJ7R13	230	**39539**	**39161**	48163	
AJ4492A	CAJ7R13	230/208	**39544**	**39119**	48163	
AJ4512A		230	**39348**	**39167**	48162	49814
AJ4512A		230/208	**39497**	**39167**	48163	49814
AJ5460E	AJ3	115	**39505**	***#39165**	*48153	49814
AJ5460E	AJ3	230/208	**39434**	***#39165**	*48153	49814
AJ5460F	AJ68	115	**39505**	***#39166**	*48153	49814
AJ5465E	AJ2L8	115	**39544**	***#39165**	*48153	49814
AJ5470E	AJ4	115	**39505**	***#39165**	*48153	49814
AJ5470E	AJ4	230	**39434**	***#39165**	*48153	49814
AJ5471E	AJ14	230/208	**39434**	***#39165**	*48153	49814
AJ5483E	AJ16	115	**39497**	***#39166**	*48153	49814
AJ5483E	AJ16	230/208	**39436**	***#39165**	*48153	49814
AJ5494E	AJ1P	115	**39497**	***#39165**	*48153	49814
AJ5494E	AJ1P	230/208	**39585**	***#39166**	*48153	49814
AJ5510E	AJ1612	115	**39442**	***#39165**	*48153	49820
AJ5510E	AJ1612	208	**39585**	***#39166**	*48153	49814
AJ5510E	AJ1612	230/208	**39444**	***#39165**	*48153	49814
AJ5510F	AJ1Q	115	**39442**	***#39165**	*48153	49820
AJ5510F	AJ1Q	208	**39585**	***#39165**	*48153	49814
AJ5510F	AJ1Q	230	**39436**	***#39165**	*48153	49814
AJ5510F	AJ1Q	230/208	**39585**	***#39165**	*48153	49814
AJ5511E	AJ1M12	115	**39442**	***#39165**	*48153	49823
AJ5511F	AJ1R	115	**39442**	***#39165**	*48153	49820
AJ5511G	AJ1S	115	**39442**	***#39165**	*48153	49820
AJ5512E	AJ1P12	115	**39442**	***#39165**	*48153	49823
AJ5512E	AJ1P12	208	**39544**	***#39165**	*48153	49814
AJ5512E	AJ1P12	230/208	**39505**	***#39165**	*48153	49814
AJ5512F	AJ1T	208	**39544**	***#39165**	*48153	49814
AJ5512F	AJ1T	230/208	**39505**	***#39165**	*48153	49814
AJ5513E	AJ1P13	208	**39497**	***#39166**	*48153	49816
AJ5513E	AJ1P13	230/208	**39544**	***#39165**	*48153	49816
AJ5513F	AJ1R12	208	**39578**	***#39165**	*48153	49816
AJ5513F	AJ1R12	230/208	**39544**	***#39165**	*48153	49816
AJ5513F	AJ1R12	265	**39555**	***#39168**	*48175	49855
AJ5515E	AJR13	230/208	**39449**	***#39165**	*48153	49820
AJ5515E	AJR13	265	**39348**	***#39166**	*48153	49862
AJ5515F	AJT12	208	**39449**	***#39165**	*48153	49818
AJ5515F	AJT12	230	**39571**	***#39165**	*48153	49818
AJ5515F	AJT12	230/208	**39571**	***#39165**	*48153	49818
AJ5515F	AJT12	265	**39348**	***#39166**	*48175	49862
AJ5517E	AJR15	208	**39502**	***#39166**	*48153	49820
AJ5517E	AJR15	230/208	**39450**	***#39165**	*48153	49818
AJ5517E	AJR15	265	**39449**	***#39166**	*48175	49862
AJ5518E	AJT15	208	**39502**	***#39166**	*48153	49820
AJ5518E	AJT15	230	**39450**	***#39166**	*48153	49820
AJ5518E	AJT15	230/208	**39502**	***#39165**	*48153	49820
AJ5518E	AJT15	265	**39571**	***#39166**	*48175	49862
AJ5519E&G		230/208	**39586**	***#39165**	*48175	49820
AJ5519E		265	**39450**	***#39166**	*48175	49863
AJ6435A	AJ2612	115	**39544**	**39119**	48139	
AJ7441A		115	**39480**	**39136**	48121	
AJ7441A		230/208	**39582**	**39105**	48161	
AJ7465A		115	**39502**	**39102**	48118	49814
AJ7465A		230/208	**39592**	**39166**	48163	49814
AJ7465B		230/208	**39439**	**39127**	48183	
AK8494E	AJ5478E	115	**39578**	***#39103**	*48153	49826
AJ8514E	AJ5512G	115	**39502**	***#39103**	*48153	49831
AJ8516E		230/208	**39544**	***#39166**	*48175	49816
AK5460E		115	**39555**	***#39103**	*48153	49820
AK5470E		115	**39578**	***#39165**	*48175	49814
AK5483E		115	**39442**	***#39165**	*48175	49814
AK5483E		200	**39585**	***#39165**	*48153	49814
AK5483E		230/208	**39436**	***#39165**	*48175	49814
AK5494E		115	**39455**	***#39165**	*48153	49814
AK5510E		115	**39455**	***#39165**	*48175	49820
AK5510E		230/208	**39555**	***#39165**	*48153	49814
AK5511E		115	**39586**	***#39165**	*48153	49820
AK5511E		230/208	**39505**	***#39165**	*48153	49814
AK5512E		115	**39586**	***#39166**	*48175	49820
AK5512E		200	**39497**	***#39165**	*48153	49814
AK5512E		230/208	**39544**	***#39165**	*48175	49814
AK5512E		265	**39585**	***#39166**	*48175	49854
AK8460E		115	**39436**	***#39103**	*48153	49820
AK8475E		115	**39555**	***#39103**	*48153	49820
AK8483E		115	**39578**	***#39165**	*48175	49814
AK8494E		115	**39578**	***#39103**	*48153	49826
AK8513E		115	**39586**	***#39165**	*48153	49820
AK8513E		230/208	**39505**	***#39165**	*48153	49814
AP 43	(S)	115	**39435**	**+39149**	*48147	
AP43	(F)	115	**39433**	**+39149**	*48147	
AP3311	BM8131 and below	115	**39444**	**39190**	48105	
AP3311	BM8132 and above	115	**39528**	**+39191**	*48113	
AP4111		115	**39514**	**+39149**	*48147	
AP5111		115	**39549**	**+39189**		
AR26		115	**39555**	**39114**	48156	49819
AR43	(S)	115	**39435**	**+39149**	*48147	
AR43	(F)	115	**39433**	**+39149**	*48147	
AR43	(S)	230	**39473**	**39187**		
AT3J12	(S)	115	**39462**	**39162**	48104	
AT3J12	(F)	115	**39561**	**39162**	48104	
AT34		115	**39483**	**+39191**		
AT35	(F) BM 1936 and below	115	**39409**	**39149**	48105	
AT35	(F) BM 1937 and above Also BM 8000 and 8200	115	**39409**	**39190**	48105	
AT35	(S) BM 1936 and below	115	**39585**	**39149**	48105	
AT35	(S) BM 1937 and above Also BM 8000 and 8200	115	**39585**	**39190**	48105	
AT35	(S) BM 8100, 8300 & 8400	115	**39528**	**+39191**		
AT35	(F) BM 8100, 8300 & 8400	115	**39561**	**+39191**		
AT3512	(S)	115	**39462**	**39191**	48105	
AT3512	(F)	115	**39437**	**39191**	48105	
AT4C	BM 8245 and below	115	**39435**	**+39149**		
AT4C	BM 8246 and above	115	**39409**	**+39147**		
AT43	(S) BM 8245 and below	115	**39409**	**+39149**		
AT43	(S) BM 8246 and above	115	**39437**	**+39147**		
AT43	(F) BM 8245 and below	115	**39412**	**+39149**		
AT43	(F) BM 8246 and above	115	**39434**	**+39147**		
AT5C	(S)	115	**39409**	**+39149**		
AT5C	(F)	115	**39412**	**+39149**		
AU1M12		115	**39441**	***#39165**	*48153	49826
AU1P12		208	**39585**	***#39165**	*48153	49816
AU1P12		230	**39585**	***#39165**	*48153	49816
AU3		115	**39505**	***39165**	*48153	49814
AU3		230/208	**39434**	***#39165**	*48153	49814
AU4		115	**39505**	***#39165**	*48153	49816
AU4		230/208	**39434**	***#39165**	*48153	49814
AU14		115	**39439**	***#39165**	*48153	49816
AU14		230/208	**39434**	***#39165**	*48153	49814
AU16		115	**39497**	***#39166**	*48153	49814
AU16		230/208	**39436**	***#39165**	*48153	49814
AU1612		115	**39441**	***#39165**	*48153	49820
AU1612		230/208	**39436**	***#39165**	*48153	49816
AUR13		208	**39449**	***#39166**	*48153	49820
AUR13		230	**39480**	***#39165**	*48153	49820
BO2A		208	**39452**	**39170**	48166	49826
BO2A		230	**39483**	**39169**	48166	49826
BO2B		230	**39452**	**39168**	48166	49826
B1P16		115	**39450**	**39165**	48156	49818
B1P16		230	**39339**	**39173**	48167	49814
B1T16		115	**39450**	**39167**	48164	49818
B1U18		230	**Internal**	**39173**	48167	49814
B7T16		115	**39446**	**39166**	48110	
B7T16		230	**39382**	**39174**	48156	
B21T18		208	**39452**	**39170**	48166	49826
B21T18		230	**39450**	**39169**	48166	49826
B21U18		208	**39452**	**39170**	48166	49826
B21U18		230	**39451**	**39169**	48166	49826
B32M16		208	**39448**	**39170**	48166	49818
B32M16		230	**39447**	**39173**	48166	49816
B32P16		208	**39449**	**39169**	48166	49820
B32P16	BM BA329, BB329, BC322	230	**39449**	***39166**	*48162	49820
B32P16	All other BMS	230	**39449**	**39169**	48166	49820
B74P18		208	**39449**	**39167**	48166	49823
B74P18		230	**39449**	**39169**	48166	49823
B74T16		208	**39450**	**39169**	48166	49823
B74T16		230	**39450**	**39169**	48166	49823
B1516	BM 1000 Series	208	**39453**	**39173**	48167	49814
B1516	BM 1114 and 1311	208	**39453**	**39171**	48167	49814
B1516	BM 8000 Series	208	**39453**	***39171**	*48167	49814
B1516	All BMS Exc. 8010	230	**39453**	**39173**	48167	49814
B1516	BM 8010	230	**39453**	***39167**	*48158	49814
B1613		115	**39450**	**39165**	48156	49818
B1613	BM 1011	208	**39453**	**39173**	48167	49814
B1613	BM 1111	208	**39453**	**39171**	48167	49814
B1613	BM 8017	208	**39453**	***39171**	*48167	49814
B1613	BM 1010 and 1110	230	**39453**	**39173**	48167	49814
B1613	BM 1417 and 1511	230	**39453**	***39167**	*48158	49814
B1616		208	**39448**	**39170**	48166	49814
B1616		230	**39447**	**39173**	48166	49814

SEE SEPARATE PRICE LIST

New Mod.	Old Mod.	Volts	Overload	Relay	Start Cap.	Run Cap.
B2513		115	39348	39100	48112	
B2516	B2516-	115	39348	39100	48112	
B2616	Potential Relay App.	115	39379	39165	48108	
B2616	Current Relay App.	230	39305	39101	48157	
B7516		230	39303	39104	48158	
B7613		115	39307	39103	48117	
B7613		230	39303	39104	48158	
B7616	A/C, Current Relay	115	39307	39103	48117	
B7616	LBP, Current Relay	115	39301	39103	48117	
B7616	LBP, Potential Relay	115	39446	39166	48110	
B7616	Current Relay App.	230	39303	39104	48158	
B7616	Potential Relay app.	230	39382	39174	48156	
B8413		115	39448	39165	48156	49818
B8513	(HP)	115	39448	39165	48105	49819
B8513	(AC)	115	39448	*39165	*48156	49818
C3N14		115	39438	39164	48119	
C3N14		230	39432	39173	48163	
C3N16		115	39438	39164	48119	
C3N16		230	39432	39173	48163	
C7P16		115	39446	39164	48123	49818
C7P16		230	39320	39171	48164	
C7T16		115	39446	39164	48123	49818
C7T16	All R/Cap. App.	230	39320	39173	48164	49805
C7T16	All Other App. Exc. BM 8572	230	39320	39171	48164	
C2513	(AC)	115	39301	39164	48122	
C2513		230	39305	39173	48164	
C2516		115	39301	39164	48122	
C2516		230	39305	39173	48164	
C2616	BM 8026	115	39301	39164	48119	
C2616		230	39305	39173	48164	
C4414		115	39561	39164	48117	
C4416		115	39561	39164	48117	
C4614		115	39561	39164	48117	
C7616		115	39446	39164	48123	49818
C7616	(FM)	230	39320	39173	48164	49805
C7616	(AC)	230	39320	39171	48164	
C7616	(FL)	230	39382	39174	48164	
CAP3311		115	39528	39121	48146	
CAP4411		115	39514	39147	48117	
CAT3J12	(S)	115	39462	39162	48118	
CAT3J12	(F)	115	39564	39162	48118	
CAT4C		115	39444	39147	48117	
CAT34		115	39483	39121	48146	
CAT35		115	39561	39121	48146	
CAT43		115	39434	39147	48117	
CAT3512		115	39462	39122	48146	
CL25X12 & CL26X12	Models W/Ext. O/L	230/208	39422	*#39168	*48186	49826
CL25X12 & CL26X12	Models W/Int. Thermostat	230/208	39471	*#39168	*48186	49826
CL25X12& CL26X12		240/208 /3	39423	2 O/L Required		
CL26X12		208	39495	*#39168	*48186	49826
CL26X12		230	39478	*#39168	*48186	49826
CL26X12		230/208	Internal	*#39168	*48186	49826
CL26Y14		230/208	39471	*#39168	*48186	49826
CL26Y14		230/208	Internal	*#39168	*48186	49826
CL26Y14		240/208 /3	39425	2 O/L Required		
CL26ZA14		230/208	Internal	*#39168	48186	49826
CL26ZA14		240/208 /3	39423	2 O/L Required		
CL30Y14		230/208	39424	*#39168	*48186	49865
CL30Y14		240/208 /3	39425	2 O/L Required		
CL31Y14	Models W/Ext. O/L	208	39517	*#39168	*48186	49826
CL31Y14	Models W/Ext. O/L	230	39495	*#39168	*48186	49826
CL31Y14	Models W/Int. Thermostat	230/208	39424	*#39168	*48186	49865
CL5538E&F	CL31Y14	230/208	Internal	*#39168	*48186	49865
CL5538E&G	CL31Y14	230/208 /3	39425	2 O/L Required		
CL31ZC17		230/208	39424	39168	48186	49865
CL4532A	CL31ZC17	230/208	Internal	39168	48186	49865
CL4532A	CL31ZC17	230/208 /3	39425	2 O/L Required		
CL31ZH17		230/208	Internal	39168	48186	49865
CL31ZH17		240/208 /3	39425	2 O/L Required		
CL5540E&F	CL32ZA14	230	Internal	*#39168	*48186	49865
CL5540E&G	CL32ZA14	230/208 /3	39425	2 O/L Required		
CL35ZC14		230/208	39426	*#39168	*48186	49867
CL35ZC14		240/208	39427	2 O/L Required		
CL36ZC14		230/208	39426	*#39168	*48186	49867
CL5544E&F	CL36ZC14, AG5546E	230/208	Internal	*#39168	*48186	49867
CL5544E&G	CL36ZC14	230/208 /3	39427	2 O/L Required		
CL40ZA17		230/208 /3	39429	*#39168	*48186	49869
CL40ZA17		240/208 /3	39428	2 O/L Required		
CL5550E&G	CL41ZA17, AG5553E	230/208	39429	*#39168	*48186	49869
CL5550E&G	CL41ZA17	230/208 /3	39428	2 O/L Required		
CL5562E&G	CL51ZH17, AG5561E	230/208	39485	*#39168	*48186	49870
CL5562E&G	CL51ZH17	230/208 /3	39490	2 O/L Required		

New Mod.	Old Mod.	Volts	Overload	Relay	Start Cap.	Run Cap.
FB300		230	39354	39174	48186	49867
FB300		220— 3	39386			
FB500	2 S/Caps Required	230	39366	39170	48184	49870
FB500		220— 3	39341	Water Cooled		
FB500		220— 3	39376	Air Cooled		
FD200		230	39398	39170	48186	49858
FD200		220— 3	39403			
FE300		230	39400	39174	48186	49858
FE300		220— 3	39405			
FE400	2 S/Caps Required	230	39397	39168	48184	49867
FE400		220— 3	39416			
JA100	Air Cooled	230	39448	39173	48167	49854
JA150	Water Cooled	230	39451	39172	48184	49862
JB100	Air Cooled	230	39327	39173	48167	49854
JB100	Water Cooled	230	39358	39173	48167	49854
JB150	Air Cooled	230	39309	39172	48184	49862
JB150		220— 3	39342			
JB200	A/C Air Cooled	230	39335	39170	48186	49858
JB200	A/C, Water Cooled	230	39335	39170	48186	49862
JB200	MBP, Air Cooled	230	39345	39170	48186	49858
JB200	MBP, Water Cooled	230	39345	39170	48186	49858
JB200		220— 3	39323			
JE150	Water Cooled	230	39357	39172	48184	49862
JE150	Air Cooled	230	39448	39172	48184	49862
JE200	Air Cooled	230	39335	39170	48186	49858
JE200	Water Cooled	230	39335	39170	48186	49862
JE301		230	39362	39170	48186	49867
JG150	HBP, Water Cooled	230	39448	39172	48184	49862
JG150	MBP, Air Cooled	230	39448	39172	48184	49862
JG150	MBP, Water Cooled	230	39357	39172	48184	49862
JG200	Water Cooled	230	39335	39170	48186	49862
P61		115	39316	+39152		
P91		115	39431	+39187		
P1218		115	39431	+39186		
P1219		115	39431	+39186		
P5112		115	39433	+39188	*48106	
P5311		115	39433	+39188		
P5312		115	39433	39188+	*48106	
P6112		115	39316	39152+		
PFB400	2 S/Caps Required	230	39366	39168	48184	49867
PFB400		220— 3	39374			
PFB403	2 S/Caps Required	230	Internal	39168	48184	49867
PFB503		230	Internal	39168	48186	49870
PJE300 & PJE301	Single S/Cap. App.	230	39362	39168	48186	49867
PJE300 & PJE301		220— 3	39324			
PJE300 & PJE301		220— 3	39373			
S1T16	PSC Top Mt. O/L. App.	115	39338	*39165	*48156	49818
S1T16	Top Mt. O/L. App.	208	39352	39168	48158	49816
S1T16	Top Mt. O/L. App.	230	39352	39166	48158	49816
S2N16	All BM Exc. 8120	115	39328	39100	48112	
S2N16	All BM Exc. 8029	230	39433	39101	48157	
S2S16	(FM)	115	39328	39100	48112	
S2N16	A/C Current Relay App.	115	39440	39192	48112	
S2S16	A/C Potential Relay	115	39440	39165	48105	49814
S2S16		230	39433	39101	48157	
S3N14		115	39438	39149	48106	
S3N16	Static, All BM Exc. 1739	115	39311	39149	48106	
S3N16	Fan, All BM Exc. 1739	115	39438	39149	48106	
S4N14	(S)	115	39435	39149+	*48106	
S4N14	(F)	115	39561	39149+	*48106	
S6N14		115	39440	39165	48105	49814
S7N16		115	39450	39165	48106	49814
S7N16		208	39318	39171	48158	49814
S7N16		230	39318	39171	48158	49814
S7R16	Current Relay App.	115	39450	39103	48117	
S7R16	Potential Relay App.	115	39450	39165	48106	49814
S7R16	Potential Relay App.	208	39318	39171	48158	49814
S7R16	Potential Relay App.	230	39318	39171	48158	49814
S7R16	Current Relay App.	230	39318	39104	48158	
SBN16	PSC, 2R/Caps Required	115	39440	*39165	*48105	49814
S64 & S68		115	39432	39188+		
S84 & S88		115	39432	39152+		
S2614		115	39440	39165	48105	49814
S3414		115	39438	39149	48106	
S3814		115	39438	39149	48106	
S4414	(S)	115	39435	39149+	*48106	
S4414	(F)	115	39561	39149+	*48106	
S4416	(S)	115	39435	39149+	*48106	
S4416	(F)	115	39561	39149+	*48106	
S4616	(S)	115	39435	39149+	*48106	
S4614	(F)	115	39561	39149+	*48106	
S4814	(S)	115	39435	39149+	*48106	
S4814	(F)	115	39561	39149+	*48106	
S5414 & S5814		115	39434	39189+		
S6814		115	39432	39188+		
T53 & T55		115	39433	39188+		
T63		115	39433	39152+		

SEE SEPARATE PRICE LIST

Overloads/Relays/Parts

Cross Reference: Tecumseh to Harry Alter Overloads

No.	Tec. No.
39301	83019
39303	83025
39305	83038
39307	83045
39309	83056
39311	83059
39313	83940
39316	83091
39318	83107
39320	83128
39328	83154
39335	83203
39338	83230
39339	83232
39342	83236
39345	83247
39348	83263
39352	83273
39354	83276
39357	83296
39358	83297
39360	83306
39362	83312
39366	83330
39367	83331
39368	83333
39374	83345
39376	83347
39379	83357
39382	83362
39409	83435
39388	83374
39390	83379
39391	83380
39393	83366
39395	83391
39397	83394
39398	83395
39400	83401
39403	83410
39409	83435
39412	83458
39415	83463
39420	83480
39422	83487
39423	83488
39424	83489
39425	83490
39426	83491
39427	83492
39428	83493
39429	83494
39430	83503
39431	83504
39432	83505
39433	83506
39434	83507
39435	83508
39436	83509
39437	83510
39438	83511
39439	83512
39440	83513
39441	83514
39442	83515
39443	83516
39444	83517
39445	83518
39446	83519
39447	83520
39448	83521
39449	83522
39450	83523
39451	83524
39452	83525
39453	83526
39586	83527
39455	83528
39302	83529
39304	83530
39578	83530
39582	83531
39308	83532
39312	83533
39578	83540
39460	83601
39462	83605
39465	83613
39468	83633
39471	83638
39473	83643
39478	83653
39480	83656-1
39483	83669
39485	83672
39487	83643
39490	83684
39495	83723
39497	83725-1
39500	83529
39502	83735-1
39503	83736
39505	83739-1
39514	83940
39517	83776
39522	83793
39526	83797-1
39528	83516
39532	83901
39535	83907-1
39585	83907-1
39537	83914
39539	83918
39594	83918
39483	83921
39544	83529
39545	83928
39433	83938
39502	83950
39555	83333
39557	83960
39592	83966
39561	83503
39564	83972
39505	83987
39569	83988
39571	83991-1
39573	83998
39592	8300-MRTA58
39593	8300-MRTA60

Tecumseh Relays Cross References

No.	Tec. No
39114	82003-CRA66
39100	82003-CRA67
39101	82003-CRA68
39102	82933
39103	82044-1
39104	82077-1
39105	82934
39114	82252
39116	82253
39174	82260
39109	82787
39168	82269-1
39114	82347
39116	82352
39145	82418
39121	82472
39122	82473
39127	82481-1
39129	82484-1
39131	82488-1
39133	82494
39136	82498-1
39147	82627
39149	82635
39152	82654
39126	82772-1
39163	82774-3
39149	82654
39156	82766-1
39159	82770-1
39161	82772-1
39162	82773
39158	82773
39164	82777
39165	82778
39195	82778
39166	82779
39198	82779
39167	82780
39208	82780
39168	82781
39169	82782
39170	82783
39171	82784
39172	82785
39173	82786
39174	82787
39168	82842
39135	82936
39154	82937
39158	82906
39133	82908
39159	82910
39156	82911
39127	82915
39129	82916
39131	82917
39125	82918
39161	82919
39126	82919-2
39136	82920
39119	82922
39186	82924
39187	82925
39188	82926
39189	82927
39190	82928
39191	82929
39192	82930
39197	82933
39196	82934
39119	82935
39106	82935
39107	82936
39154	82937
39193	82938
39199	82939
39112	82938
39113	82939

Adapter Kits To Replace Old Compressors

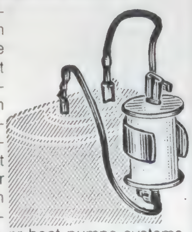


Kits may be required to replace old model compressors with new model compressors because of differences in bolt hole mounting centers. See "Current Replacement List" for specific replacements.

Kit No.	Mounting Hole Centers: New Compressor	Mounting Hole Centers: Old Compressor
36799	7"x7"	7-1/2"x7-1/2"
36783	4-13/16"x8"	8"x2-1/16"
36255	7-1/2"x7-1/2"	8"x10-1/4" and 10-7/8"x10-7/8"
36696	4"x6-1/2"	7"
36695	7-1/2"x7-1/2"	8"x10-1/4"

No.	Tecumseh No.	New Models	Old Models
36799	K21-1	CAT, AE CAJ, AJ	B,C,S, and T
36783	K22-1 (When Required)	AJ	AU
36255	K20-1	CL	For J
	(Also Used to Firmly Mount Model CL When Replacing Compressors Of Other Makes)		
36695	K20-3	AH, B	J
36696	K26-2	AE	P,AP
39808	K35-1	AE	AT,CAT
39809	K35-2 (For Lower Clearance)	AE	AT,CAT

Tecumseh PTC Starting Assist Kit



Contains a positive temperature coefficient solid state device to be wired in parallel with the run capacitor to give additional starting power or torque. It acts like a small capacitor by momentarily increasing the current through the start winding. As it heats, its resistance builds up to decrease the current through the PTC device to almost nothing and the normal split capacitor operation takes over. One kit used on all permanent split capacitor Tecumseh compressors for air conditioning or heat pumps systems that are self-equalizing using capillary tube or bleeder type expansion valves. Do not use on systems wired for off cycle crank case heat or on systems with capacitor start and run compressors. Requires 3 minute cool down cycle. Kit complete with mounting clips, wire, and instructions.

35906 SAK2 PTC Starting Assist Kit

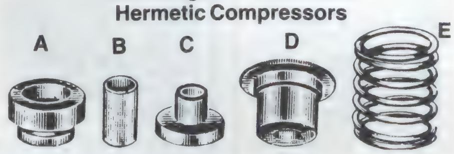
Tecumseh Refrigerant Suction Accumulators



Designed to prevent excessive liquid refrigerant being returned to the compressor, which would shorten its life and reliability. Excessive liquid can be caused by hot gas defrosting, dirty and blocked filters in an air conditioning system, overcharge, etc. To prevent refrigerant migration to the compressor, a crank case heater is still necessary. This accumulator allows only refrigerant as gas and a controlled amount of oil and refrigerant as liquid to return to the compressor. Must be mounted vertically. Outlet tube is marked and must be connected to compressor. The proper sizing is determined by the total system charge. If in doubt, use next larger size. Regular reducing bushings may be used. Silver solder is necessary as connections are steel. A kit is available to increase 7/8" I.D. to 1-1/8" I.D. Very low pressure drop.

No.	Model	I.D. Solder	Maximum System Charge	Approx. Dim. In.
36916	TA 055	5/8"	55 Oz.	3x8
36917	TA 906	3/4"	90 Oz.	3x13
36918	TA 1207	7/8"	120 Oz.	4-1/2x9
36919	TA 1607	7/8"	160 Oz.	4-1/2x11
36920	TA 2007	7/8"	200 Oz.	4-1/2x14
36922	TA 2557	7/8"	255 Oz.	6x14
36923	TA 3709	1-1/8"	370 Oz.	6x17-5/8"
36924	TA 48011	1-3/8"	480 Oz.	6x22

Mountings For Tecumseh Hermetic Compressors



Mounting rubbers and springs belong with the necessary metal parts which help reduce vibration.

No.	Type	Description	O.D.	I.D.	Long or Thick
		For Model P Compressors			
36260	A	Grommet	1-1/4"	7/16"	11/16"
		For Model AP, AR, and AU Compressors			
36261	A	Grommet	1-1/4"	7/16"	11/16"
36262	B	Metal Sleeve	7/16"	—	5/8"
		For Model AT, AE, and CAT Compressors			
36263	A	Grommet	1-1/4"	7/16"	11/16"
		For Model AU, AJ, and AE 1/4 and 1/3 Compressors			
38311	A	Grommet	1-1/4"	7/16"	15/16"
38312	B	Sleeve	7/16"		7/8"
		For Model CAJ Compressors			
38313	A	Grommet	1-1/4"	7/16"	7/8"
38314	B	Sleeve	7/16"	—	13/16"
		For Model AH Compressors			
38315	A	Grommet (Firm)	1-1/4"	7/16"	7/8"
38314	B	Sleeve	7/16"	—	13/16"
38318	—	Grommet	1-1/4"	7/16"	1-1/8"
		For Model CL Compressors			
38316	A	Grommet	1-5/8"	7/16"	1-7/16"
38317	B	Sleeve	7/16"	—	1-3/8"
		For Model B Compressors			
36265	C	Upper Grommet	1-1/8"	7/16"	5/8"
36266	D	Lower Grommet	1-1/2"	7/16"	15/16"
36267	E	Mounting Spring	1-3/8"	—	1-5/8"
36269	—	Fibre Washer	1-3/8"	31/32"	1/8"

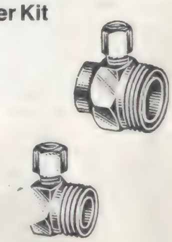
Adapter Bracket To Replace GE Compressor With Tecumseh Model AE



This adapter bracket will permit using the Model AE Tecumseh compressor to replace the GE compressor on GE refrigerators or freezers having a U-shaped pipe. Complete with directions for mechanical and electrical changes.

28107 Adapter Bracket For AE compressor — Each

Tecumseh Rotolock Adapter Kit

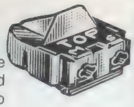


Steel adapters to fit threads of Rotolock valves with the other end to be soldered into ID of suction and discharge connections on compressors with stub tube connections. No. 35903 and 35904 require street ells. Each adapter has 1/4" SAE capped fitting to use high or low pressure controls. Kit has one each suction and discharge adapter.

No.	Tec. No.	Adapter To Fit ID Tubing Sizes: Suction	Adapter To Fit ID Tubing Sizes: Disch.	For Compressors
35903	K30-4	5/8"	3/8"	AH2435A, AH2445A, AH2466A, AH4518A, AH5524E, AH7480A, AH7511A
35904	K30-1	3/4"	3/8"	AH4525A, AH5540E, CL36ZC14, CL41ZA17, CL5544F, CL5550G
				Any of the Above Rotolock Adapter Kits
35908	K30-6	1"	½"	"AG" C
35909	K30-8	—	½"	"AG" Disch. only

SEE SEPARATE PRICE LIST

Tecumseh Solid State Push On Relay SSR3



One rating that will work on 115V resistance start induction run household refrigerator and freezer compressors. No moving parts. No mounting restrictions. Do not use this relay on capacitor start induction run compressors or compressors that rapidly recycle because the relay must have enough time between starts to cool off. Only 1-5/16" long and 1-1/16" wide. Has pin type push on terminals with 1/4" push on terminals for wiring connections. Complete with instructions and push on terminal for screw connection.

35907

Tecumseh Hermetic Compressor Service Data Book

This book has a load of information and is really worth having.

36170

Tecumseh Adapter Pak For Current Type Relays



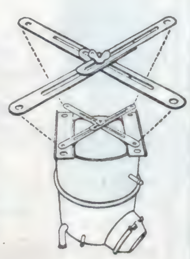
Fusite Pin | Eyelet | Female Push On | A | B

Each manufacturer of refrigeration, freezer, or air conditioning equipment has the choice of buying overloads or relays from Tecumseh or from a manufacturer of overloads or relays and installing these parts themselves. Relays with the same electrical values but with different mountings were used on the same model compressor by different equipment manufacturers. These replacement relays have the correct electrical values to operate the compressor but the right Adapter pak may be needed to fit, or mount or connect the relay to an individual compressor. These Adapter Paks are sold at a modest cost and you should carry a complete assortment of Adapter Paks in your parts stock to be able to make these relay exact replacements. These are blister packed and each contains a bracket, a fillister head 1/4" screw and 2 leads. Each lead has one end with a male pin fusite connection.

No.	Pak	Bracket	Connection 1-Male Pin Other End	Servicing Compressor Models
39201	101	B	Fem. Fusite Pin	T,AT or CAT
39202	102	A	Fem. Fusite Pin	P,AP or AR
39203	103	A	Eyelet	P or S
39204	104	A	Fem. Push On	S
39205	T110	—	Terminal Kits	AH40
39206	T111	—	Terminal Kits	All other AH
39207	T112	—	Terminal Kits	AJ, AK

(No. 39207 Also Used On AE Models For Air Cond.)

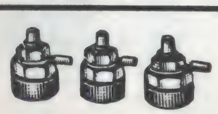
Sealed Unit Parts Compressor & Motor Mounting Bracket Seal Kit



Kit will enable you to mount replacement compressors in minutes. Comes complete with template and all mounting bolts. Can be used for commercial refrigeration compressors, residential air conditioning compressors, electric motors, and will eliminate all drilling. Simplifies replacement compressors alignment with original suction lines and electrical boxes—saves time.

No.
60593

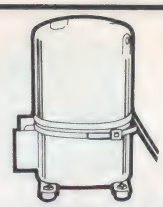
Derco T301 Terminal Kit



Installed on old terminal posts without increasing their length. They fit Amana, Coldspot, Coolerator, Copelamatic, Crosley 1942 and later, Frigidaire 1939 and later, GE, Gibson, Kelvinator, McGraw-Edison, Norge, Philco, Stewart Warner, Tecumseh, and Westinghouse.

1484 Complete Set of 3

Freezgard Crankcase Heaters



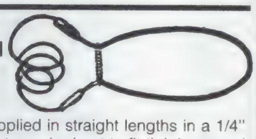
Freezgard is the self-regulating wattage crankcase heater. This heater prevents refrigerant migration into the hermetic crankcase during OFF periods. Freezgard is made of wrap around PTC (solid state material) which reduces wattage when surrounding temperatures are high and increases automatically the wattage as the ambient temperature drops, using 60 watts at 60°F. and 35 watts at 60°F.

Freezgard was designed for 2 HP—5HP hermetics having no more than 76 oz. of crankcase oil and having a crankcase circumference no greater than 40 inches.

This heater comes in one size, used on either 120 volt or 240 volt.

No.	
28160	Freezgard Htg. Tape 120V
28161	Freezgard Htg. Tape 240V

Dependo Universal Crankcase Heater



This crankcase heater is supplied in straight lengths in a 1/4" OD soft aluminum sheath that may be bent to fit tightly around the compressor base. The ends are bent so that a stainless steel spring will hold it in position. When installed properly so that all parts of the heated portion are in contact with the compressor base the heater will give good service. The heater is 50 Watt 230V with 22" hot section and 5" cold ends or 32" overall. It has 30" AWG # 18 leads and 1/16" wall neoprene insulation. Used where compressor is normally operated in a colder location than the evaporator to prevent the migration to the colder compressor. Also used on heat pumps and air conditioning where the compressor is located outside. In straight lengths with stainless steel spring.

28106G

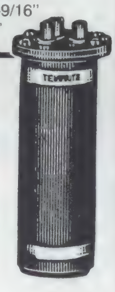
TUTCO Crankcase Heaters



- Stainless Steel Exterior
- Quick—Easy Installation
- High Temperature Silicone element and insulated leads

No.	Tutco Series	Voltage Rating	Wattage Rating	For Use On Girth Dim. Length in Inches Min.	Max.
65250	CH101	240V	54	27"	34-1/4"
65251	CH102	240V	60	25-5/16"	32-9/16"
65252	CH103	240V	45	24-7/16"	31-9/16"
65253	CH101	480V	54	27"	34"

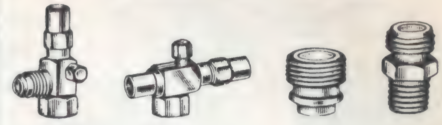
Temprite Oil Separators



Each oil separator may be used with either R12, R22 or R502 refrigerants. Capacities are shown in tons at 40°F. evaporator, 140°F. discharge and 110°F. condensing temperatures. Maximum working pressure is 500 PSI.

No.	Inlet Outlet	Overall High	Shell Diam.	Add Oil To Separator	R-12	R-22 or R502
29321	1/2" OD	10 1/4"	4-5/16"	16 Oz.	1.83	2.8
29322	5/8" OD	12 3/4"	4-5/16"	16 Oz.	3.66	5.6
29323	7/8" OD	14 3/8"	4-5/16"	16 Oz.	5.49	8.4
29324	1 1/8" OD	15 3/8"	4-5/16"	16 Oz.	7.32	11.2
29325	1 3/8" OD	18 7/8"	4-5/16"	16 Oz.	9.16	14.0
29326	1 5/8" OD	20 1/4"	6 1/4"	29 Oz.	13.0	23.6
29327	2 1/8" OD	12 1/4"	6 1/4"	29 Oz.	23.0	40.0
28515	Header Gasket 29321 to -29 and 4-5/16" OD					

"Standard" Rotalock Valves



A | B | C | D

Steel Rotalock valves can be rotated to make the connection in the best position. 1/4" SAE charge port, 1/4" square stem. Teflon seal ring makes leak proof seal. Valves are supplied without the Teflon seal ring. Teflon seals are purchased separately.

A Vertical Valves

No.	Size	Uses Teflon Seal	Uses Spud
24440	3/8"SAE	24446	24456
24441	1/2"SAE	24447	24457
24442	5/8"SAE	24447	24457
24444	7/8"OD	24448	24458
24445	1-1/8"OD	24448	24458

B 12' Horizontal Valves

No.	Size	Uses Teflon Seal	Uses Spud
24450	3/8"SAE	24446	24456
24451	1/2"SAE	24447	24457
24449	1/2"OD	24447	24457
24452	5/8"SAE	24447	24457
24453	5/8"OD	24447	24457
24454	7/8"OD	24448	24458
24455	1-1/8"OD	24448	24458

C 12' Rotalock Spud

No.	For Valves
24456	3/8"
24457	1/2" & 5/8"
24458	7/8" & 1-1/8"

D 12' Rotalock Adapter To Iron Pipe Thread

No.	Iron Pipe	For Rotalock
24459	3/8"MIPT	3/8" 24440-50
24460	1/2" MIPT	1/2" 2444-51 5/8" 24442-52-53
24461	3/4"MIPT	7/8" 24444-54 1-1/8" 24445-55

Teflon Seals

No.	
24446	3/8"
24447	1/2" & 7/8"
24448	7/8" & 1/-1/8"

Refrigeration Research Suction Accumulator



The suction line accumulator temporarily holds the excessive amounts of refrigerant and/or oil that often build up in the suction line during the off cycle before they enter the compressor. This protects the compressor from getting large amounts of liquid on start up and prevents damage. A small hole in the return tube to the compressor meters the return of liquid, oil, or gas. Hydrogen brazed all steel construction. Accumulators should be sized within limits of maximum ton based on pressure drop and min. ton based in oil return and should be able to hold nearly one half the refrigerant charge in the system. For vertical counting with 3/8" stud at the bottom. Refrigerant capacity for R-12 is shown R-22 capacity about 9% and R-502 about 4% less.

Recommended Tons of Refrigerant

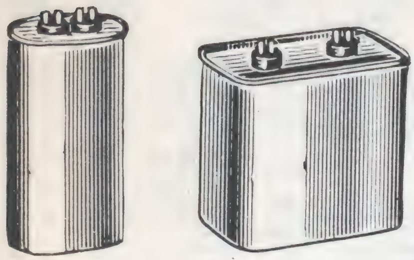
No.	Evap. Temp.	R-22 Max.	R-22 Min.	R-12 Max.	R-12 Min.	R-502 Max.	R-502 Min.
29400	+20°F.	1.25	.05	.60	.05	1.0	.05
29401	—20°F.	.55	.05	.25	.05	.45	.05
29402	+20°F.	2.1	.18	1.15	.12	2.0	.18
	—20°F.	1.1	.13	.48	.09	.83	.13
29403	+20°F.	3.0	.45	1.75	.31	3.0	.45
	—20°F.	1.5	.33	.70	.21	1.25	.33
29404	+20°F.	6.2	.65	3.2	.44	6.0	.65
	—20°F.	2.75	.47	1.4	.3	2.5	.47
29405	+20°F.	11.0	1.9	6.0	1.22	10.0	1.9
	—20°F.	5.0	1.3	2.4	.85	4.5	1.3
29406	+20°F.	19.0	1.9	9.0	1.22	18.0	1.9
	—20°F.	8.0	1.3	3.9	.85	7.2	1.3

No.	Diam.	Lgth.	Max. Lbs. Cap. R-12	Suction OD
29400	4"	6-5/8"	2.3	5/8"
29401	4"	10-5/8"	4.4	5/8"
29402	4"	10-5/8"	4.4	3/4"
29403	5"	13"	7.7	7/8"
29404	6"	15"	12.8	1/18"
29405	6"	20-1/4"	17.6	1-3/8"
29406	6"	24-3/4"	22.5	1-5/8"

SEE SEPARATE PRICE LIST

Capacitors/Relays

Run Capacitors 50/60 Hz With Low Toxicity Non-PCB Fluid



Drawn seamless case, top quality capacitors are fully guaranteed, warranted for one year. Ideal for motor-run/air conditioning replacement uses. Low toxicity non-PCB fluid, developed and tested especially for use with paper and film paper dielectric capacitors. Meets all environmental compatability standards. All capacitors have an internal protection device which virtually prevents case rupture and expulsion of internal materials at end of capacitor life. Meets NEMA standard. Two or more capacitors can be connected in parallel to obtain MFD capacity equal to the sum of each capacitor's rating.

370 Volt AC		440 Volt AC		Dual 370 Volt AC	
No.	MFD.	No.	MFD	No.	MFD.
49800	2	**49845**	3	**49876**	17.5-5
49801	3	**49846**	4	**49878**	20-5
49803	4	**49847**	5	**49898**	20-15
49805	5	**49842**	7.5	**49888**	25-3
49806	6	**49850**	10	**49879**	25-4
49809	7.5	**49851**	12.5	**49880**	25-5
49810	10	**49854**	15	**49884**	30-5
49812	12.5	**49855**	17.5	**49892**	35-3
49814	15	**49862**	20	**49899**	35-4
49816	17.5	**49863**	25	**49885**	35-5
49818	20	**49858**	30	**Dual 440 Volt AC**	
49820	25	**49866**	35		
49823	30	**49853**	40	**49836**	20-5
49826	35	**49886**	15-3	**49837**	25-4
49830	40	**49873**	15-4	**49838**	35-3
49831	45	**49874**	15-5	**49839**	35-5
49832	50	**49875**	17.5-4		

Watsco Pocket Capacitor Tester



A simple and fast way to test electrolytic or oil capacitors both AC or DC voltage. Shows if capacitor is shorted, grounded, open, or will hold a charge. Shows up leakers on high working voltage and borderline troublemakers.

1450

Capacitor Bleeder Resistor

No.		
48627	2W	15000 Ohm Resistor

Plastic End Caps And Metal Mounting Brackets

No.	Size
48620	1-7/16"
48621	1-13/16"
48623	2-9/16"
No.	**Brackets**
48624	2-3/4"
48625	3-3/8"
48626	4-3/8"

Electrolytic Motor Starting Capacitors



Plastic Double Terminal

Made to meet Nema specifications by a nationally known electronics manufacturer. These compact replacement motor starting capacitors have a black plastic case and may be used with plastic cover to fit the standard metal mounting brackets.

110/125 V 50/60 Hertz AC 1-7/16" Diam. 2¾ Long

No.	Mfd.	No.	Mfd.
48100	21-25	**48103**	53-64
48101	36-43	**48104**	64-77
48102	43-53		

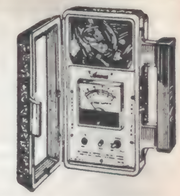
110/125V 50/60 Hertz AC 1-7/16" Diam. 2-3/4" Long

No.	Mfd.	No.	Mfd.
48105	72-88	**48110**	130-156
48106	88-108	**48111**	145-175
48109	108-130	**48112**	161-193
48109	124-149	**48113**	189-227
1-7/16" Diam. 3-3/8" Long			
48114	200-240	**48117**	243-292
48115	216-259	**48118**	270-324
48116	233-280		
1-7/16" Diam. 4-3/8" Long			
48119	324-389		
1-13/16" Diam. 3-3/8" Long			
48120	340-408	**48123**	430-516
48121	378-440	**48124**	460-552
48122	400-480		
1-13/16" Diam. 4-3/8" Long			
48126	540-648	**48130**	708-850
48128	590-708	**48132**	829-995
2-1/16" Diam. 4-3/8" Long			
48134	1000-1200		
165V 50/60 Hertz AC 1¼" Diam. 3¼" Long			
48139	88-108	**48143**	161-193
48140	108-130	**48144**	189-227
48142	145-175		
1-7/16" Diam. 4-3/8" Long			
48146	233-280		

220/250V 50/60 Hertz AC 1-7/16" Diam. 2-3/4" Long

No.	Mfd.	No.	Mfd.
48153	21-25	**48155**	30-36
48154	25-30	**48156**	36-43
1-7/16" Diam. 3-3/8" Long			
48157	43-53	**48160**	56-72
48158	47-56	**48161**	64-77
1'13/16" Diam. 3-3/8" Long			
48162	72-88	**48164**	108-130
48163	88-108		
1-13/16" Diam. 4-3/8" Long			
48165	124-149	**48167**	145-175
48166	130-156		
2-1/16" Diam. 4-3/8" Long			
48168	161-193	**48171**	233-280
48169	189-227	**48172**	243-292
48170	216-259	**48173**	280-333
330V 50/60 Hertz AC 1-7/16" Diam. 3-3/8" Long			
48175	25-30	**48177**	36-43
48176	30-36	**48178**	43-53
1-13/16" Diam. 3-3/8" Long			
48180	53-64	**48181**	64-77
1-13/16" Diam. 4-3/8" Long			
48182	72-88	**48183**	88-108
2-1/16" Diam. 4-3/8" Long			
48184	108-130		
2-9/16" Diam. 4-3/8" Long			
48185	124-149		
2-1/16" Diam. 4-3/8" Long			
48186	130-156	**48187**	145-175
2-9/16" Diam. 4-3/8" Long			
48188	161-193	**48190**	216-259
48189	189-227		

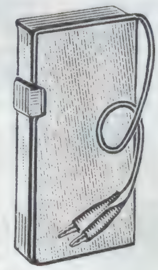
"Annie" Dual Range Capacitor Tester



For use on all capacitors up to 600 Mfd. any AC voltage. Can check for open capacitor, leaks, shorts or grounds. Gives you direct Mfd. readings on dual scale meter, ranges 0-60 and 0-600 Mfd. Immediately identifies unmarked capacitors. Use as continuity checker. Discharges capacitor at end of test. Has panel mounted fuse. Size 11"x8"x4-1/2". Rugged polyethylene case. Weighs only 2-3/ 4 Lbs. Operates on 110-125 volts AC. Model A-4.

No.
16288H

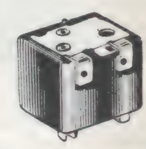
TIF 660 Capacitor Tester



This new battery operated capacitor tester uses an audible signal to test oil filled or electrolytic capacitors. Uses 9 volt Transistor battery. Dimensions: 5" long, 2½" wide, 1" deep. Leads are 13" long with insulated test clips. Weighs 7 oz.

No.
65249

GE Replacement Type 3ARR3 Relay For Submersible Pumps



Designed for operation in wet and high humidity locations. Replaces J models as is, D models by using screw terminal adapters provided and EA models without using mtg. brackets.

No.	Mars	No.	Mars
38518	550	**38519**	551

Big Relay



Relay and capacitor combined to give an added boost for hard to start and unbalanced systems. Replaces old current type relays—push on type also! Advanced solid-state design means you only have to stock one size for any compressor from 1/12 through 1/2 H.P.

No.	RSC	Volts
60546	10	110
60547	20	220

3 n' 1 Start Relay

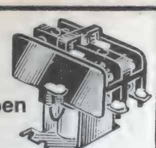


Relay, capacitor and overload all in one easy to install unit.

No.	RCO	H.P.	Voltage
60573	810	1/12, 1/10, 1/8, 1/6, 1/5	115
60574	410	1/4, 1/3	115
60575	820	1/12, 1/10, 1/8	230
60576	620	1/6, 1/5	230
60577	420	1/4, 1/3	230

SEE SEPARATE PRICE LIST

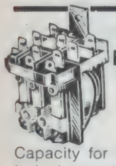
RBM Relay Type 143 2 Pole Normally Open

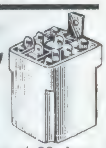


18 Amp full load, 90 Amp in rush 250V AC.

No.	RBM 90	Coil Volt	Replaces RBM
48438	234	24V AC	143-12★5★★-★★★★★
48439	235	12V AC	143-12★2★★-★★★★★

RBM Type 93 Double Throw 3 Pole Open Enclosed





Capacity for 10 Amp full load and 30 Amp locked rotor 125V AC or 5 Amp. F.L. and 15 Amp. L.R. 250V AC. All are double throw with 3 poles.

All 3 Pole Double Throw Switches

No.	Coil Voltage	Type
48434	24V	Open
48444	120V	Open
48437	24V	Enclosed
48447	120V	Enclosed

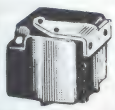
Tattle-Tale Control Monitor

Installed in parallel with each safety control, the Tattle-Tale red flag pops up when the safety control opens.



No.	Wagner	Volts
18130	TT24	24V
18131	TT120	120V
18132	TT240	240V

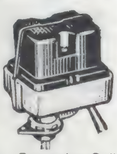
Potential Relays For Tecumseh Compressors



For 115V Compressors

No.	H.P.	GE 3ARR1-;3ARR3-	RBM 91255
39164	1/4-1/2	A7M3,C7M3,C7N3, AP7M3	1163,1166
39165		A3 R3, A3P3	1125, 1126, 1202,1324
39164	3/4	A2M3,B2M3,U2M3	
39167	1	A3U3,B3U3,B3V3	
39168	1-1/2	B6U3,B6V3,B6W3	
For 208/230V Compressors			
39169		A3B3	1222,1223 1224, 1272
39173		U3D2	
For 230V Compressors			
39173		A5D3	1173
39169	3/4	C3B3	1272,1273
39173		A3D3,B3D3,U3D2	
39172	3/4	C5C3	1173
39171	1	C3C3	
39169		B3B3,V3D2	
39172	1-1/2	B4D3	1154
39174	1-1/2	B6F3	1062,1064
39170	2	A6A3,B6A3,B6B3	1184
39172	3-5	B4D3	1334
39168	2-5	B6U3,B6V3,B6W3	

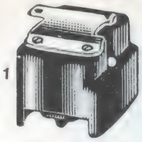
RBM Add-A-Relay



Operates in any position. Lead wires are 8" and color coded. Rated 2HP 250V 18 Amp continuous operation.

No.	Contacts Single Pole	Operating Coil
48490	SP Normally Open	24 Volt
48491	SP Normally Open	115/120 Volt
48492	SP Normally Open	230/240 Volt
48495	SP Double Throw	24 Volt
48496	SP Double Throw	115/120 Volt
48497	SP Double Throw	230/240 Volt

RBM Potential Relays

No. 1   No. 2

These kits have one clamp screwed to the cover and an extra clamp which will cover most replacements.

No.	RBM Kit	Nom. Coil	Pick-Up Voltage	Drop Out Voltage
48301	90-1	130	139-153	15-55
48327	90-21	170	140-153	20-45
48302	90-2	256	296-325	35-77
48303	90-3	256	159-172	35-77
48304	90-4	336	261-290	50-100
48305	90-5	336	280-309	55-100
48400	90-23	336	317-345	50-100
48307	90-7	336	171-184	40-90
48402	90-25	395	305-335	50-105
48310	90-10	395	190-125	40-105
48403	90-27	420	204-233	60-121
48311	90-11	420	262-290	60-121
48313	90-13	420	223-252	60-121
48314	90-14	495	239-268	60-135
48315	90-15	495	295-324	60-135
48316	90-16	495	323-352	60-135

Single pole normally closed with isolated normally open contacts. Terminals 4 and 5 connect operating coil. Terminals 1 and 2 normally closed contacts. Terminals 3 and 6 normally open contacts.

RBM Control and Power Relay Type 129000

18 Amp at 250 Volt AC, or 1 HP 125V SP or 2 HP 250V SP.

Single Pole Normally Open

No.	RBM 129115	Coil Volts	Replaces 129000
48330	-6880Z	24V	129★★5★★8★Z★
48331	-6810Z	115V	129★★5★★1★Z★
48332	-6830Z	208/230V	129★★5★★3★Z★

Single Pole Double Throw

No.	RBM 129117	Coil Volts	Replaces 129000
48333	-5480Z	24V	129★★2★★8★Z★
48335	-5430Z	208/230V	129★★6★★3★Z★ 129★★6★★3★Z★

48333 Replaces: 91256-2382, -2682
48335 Replaces: 91256-2384, 2684,4684

Single Pole Double Throw Pilot Duty

For pilot duty with contacts rated up to 3 Amp 115V or 350 volt amp. with 240V max. AC.

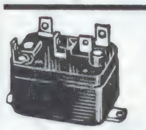
No.	RBM 129113	Coil Volts	Replaces 129000
48333	-5480Z	24V	129★★3★★8★Z★
48335	-5430Z	208/230V	129★★3★★3★Z★

Lock Out Relays

Lock out relays with special coils and settings to provide manual rest protection with automatic reset overloads. Single pole normally closed.

48493 129111-2880ZR 24 Volt
48494 129111-2830ZR 208/220 Volt

RBM Type 84 and 184 Totally Enclosed Single Pole Relay

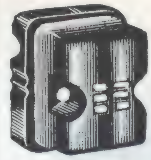


Normally Open Single Throw Rated 8 Amp 125/250 Volts

No.	No.84-	Volts
48426	20105-109	24
48427	20205-109	115/120
48428	20305-109	230/240
48429	20106-309	24
48430	20206-309	115/120
48431	20306-309	230/240

No.	No. 184-	Volts
48450	90-360	24
48451	90-362	115/120
48452	90-364	230/240
Doubled Throw Rated 8 Amp. 125/250 Volts		
48453	90-370	24
48454	90-372	115/120
48455	90-374	230/240

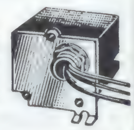
RBM Shrouded Relays



No.	RBM 128186	Nom. Coil	Pick Up Voltage	Drop Out Voltage
48317	-1311M	130V	139-153	15-55
48318	-1331D	256V	296-325	35-110
48320	-1361F	420V	328-356	60-170

Honeywell Fan Relays R8225

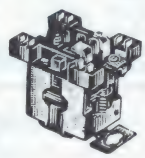
Honeywell fan relays give 24V circuit control of line voltage circuit for fans, motors, etc. Completely enclosed relay with 1/2" conduits spud for mounting on a junction box.



No.	R8225-	Full Load 120V Switch	N.O.	N.C.
73672	A1017	SPDT	16A	9.8A
73674	D1003	DPST	18A	
		Aux	3A	

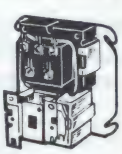
Honeywell Fan Relay R8222D

These plug-in fan relays are rated 12 Amps on full load 120V AC. No. 70482 replaces fan relays in R851, R8100 and R8101 series and R8102 panels, 24 volt operating coils DPDT switch.



70482 R8222D 1014

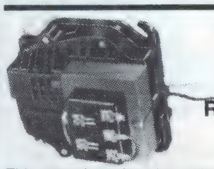
Honeywell Air Conditioning Enclosed Fan Relay Control R8239



Has SPDT fan relay will full load rating of 14 Amp on normally open and 10 Amp on normally closed contacts 120V AC.

No.	R8239	Switch	Full Load 120V
73675	A1052	SPDT	13.8A
73783	B1043	DPDT	13.8A

Honeywell Heating/Cooling Relay Control R8325A



This control provides low voltage for fan or pump motors and auxiliary circuits in forced air or hydronic heating/cooling or heating/cooling systems. SPDT Switch.

No.	R8325A	Locked 120V	Full Load 120V
73796	R8325A1008	82.8A	13.8A
73782	R8325A1016	208/240V 41.4	208/240V 6.9

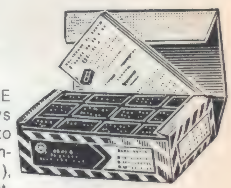
Honeywell Switching Relay For Low Voltage Thermostats RA89A, RA832A, R45A



Relays have low voltage transformers that supply current. No 70456 switch one line-voltage load and No. 70457 switches 2 line-voltage loads having a common power source and switching only for a separate low voltage load. No. 70456 replaces old R-15-5(AC), R19-1, -A, R119A, R182A, and R882A. No 70457 replaces old R832A and R845.

No.		Switch	Voltage	Full Load 120V	Full Load 240V
70456	RA89A1074	SPST	120V	7.4A	5.1A
70457	RA832A1066	DPST	120V	7.2A	3.6A

Mars 10CR Relay Kit



This relay kit has 10 GE current type relays (Mars No. 27000 to 10), 2 boxes of conversion parts (QC-11), and a 16 page booklet

38500



Relays listed in above kits may be bought separately.

No.	GE3ARR12-	No.	GE3ARR12-
38501	PAC309A	**38506**	PAC314A
38502	PAC310A	**38507**	PAC315A
38503	PAC311A	**38508**	PAC316A
38504	PAC312A	**38509**	PAC317A
38505	PAC313A	**38510**	PAC318A

38525 Mars OC-11 Conversion Parts Kit

Relays Not Included In Kit

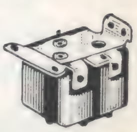
These relays may be adapted for replacement on many other units but are not included in kit.

No.	GE3ARR12-	Replaces Tecumseh
38511	PAC319A	82265,82466,-1,82482, -1, 82769,82773
38512	PAC320A	82405,82481,-1,-2, 82491-1,82498,-1 Replaces Whirlpool & Coldspot

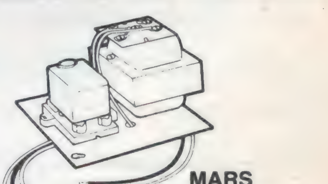
Mars 6-Pak Potential Motor Starting Relays

Kit includes 6 relays No. 38563 to 38568 in a heavy cardboard box with general replacement information on the cover. Has a 12 page 5-3/4" x7-3/4" booklet listing manufacturers numbers cross referenced with Mars nos. for relays used on motors, compressors and completed products.
Three extra relays No. 38569 to 38571 are listed that are not included in kit.

No. **38560** Kit in printed carton with 6 relays and Referenced Guide.



No.	Mars	Cont. Volt	Pick Up Min.	Voltage Max.	Max. Drop Out
38563	63	200	139	153	55
38564	64	432	260	275	120
38565	65	332	168	182	90
38566	66	432	215	225	120
38567	67	457	295	315	125
38568	68	502	325	345	135
38569	69	375	180	195	105
38570	70	253	285	305	77
38571	71	420	212	232	120



MARS Relay Transformer Fan Control Center

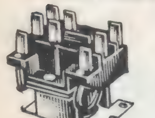
24 volt control transformer and a plug relay, both mounted on a 4" sq. plate. Single pole, double throw, provide low voltage control.

No.	Mars Model	Primary Voltage	Secondary Voltage	Contacts Rated
38671	24020	120	24V:40 VA	1/2HP

SEE SEPARATE PRICE LIST

Relays/Contactors

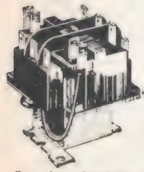
RBM Type 91 Enclosed Switch Two Pole Double Throw



1 and 2; and 4 and 5 are normally closed and across 1 and 3; and 4 and 6 are normally open. Power contacts rated 12A 125V, 6A 250V per pole.

Switch No.	Duty On Terminal Coil Volt	1-2-3 Term	4-5-6 Term
48462	24	Power	Power
48472	115/120	Power	Power
48482	208/230/240	Power	Power

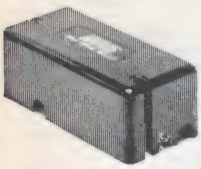
RBM Type 192, 3PDT Control Switching Relay



3-pole, double throw semi-enclosed relay. Model No. 90-350.

No.	Description	Coil Voltage
48251	Switching Relay	24V,50/60HZ

MARS Hot Wire Relay

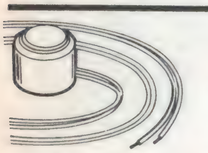


Thermal Overload Combination

Pick out your replacement or application needs by H.P. or amperage ratings.

No.	Model	F.L.A.	Horsepower Rating
31910	21112	7.2-8.3	1/3 H.P. 115V
31911	21114	5.5-6.2	1/4 H.P. 115V
31912	21116	4.8-5.5	1/5 H.P. 115V & 1/2 H.P. 230V
31913	21118	4.1-4.8	1/6 H.P. 115V
31914	21120	3.5-4.1	1/8 & 1/10 H.P. 115V & 1/3 H.P. 230V
31915	21122	3.0-3.5	1/12 H.P. 115V & 1/4 H.P. 230V
31916	21124	2.6-3.0	1/5 H.P. 230V
31918	21128	1.8-2.2	1/8, 1/10, 1/12 H.P. 230V

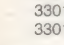
MARS Defrost Thermostat 330 Series



10 Amp. Resistive-120V/5Amp. Resistive-240V. Diameter is 1-1/32".

No.	Mars No.	Temperature Setting (°F) Open	Close
38640	33008	45	25
38641	33009	50	30
38642	33010	55	35
38643	33011	60	40

Additional Mounting Clips for 330 Series Defrost Thermostats

Fig.1 Surface Mount  **Fig. 2 Snap-On Style**  **Fig. 3 Snap-On Style**

No.	
38644	33013
38645	33014
38646	33015

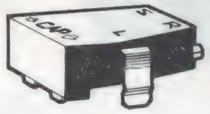
Fabcel Mountings

For Vibration and Noise Control

Non-Impact Load Per Sq. In.	2"x2" Pad	3"x3" Pad	Impact Load Per Sq. in.	2"x2" Pad
10-50 Lb.	400-200 Lb.	90-450 Lb.	25 Lb.	100 Lb.

Part No.	Size
49388	Pkg. of 4 Pads 2"x2"
49389	18"x18" Sheet

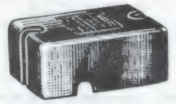
Sealed Unit Parts Solid State Push On Relay



Similar to 1C Relay but made to replace the push on current type relay. Will replace relays on 1/12 to 1/3 HP compressors. Not suitable for instant on-and-off application.

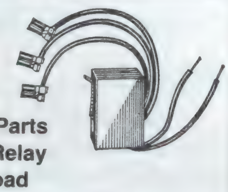
No.	Volts
60569	230
60571	115

Sealed Unit Parts SYT Solid State Relay and Overload



No.	Model	HP	Amps
60563	SYT8-9	1/7, 1/8, 1/9	2.2
60564	SYT6	1/6	2.92
60565	SYT5	1/5	3.50
60566	SYT4	1/4	4.37
60567	SYT3	1/3	5.83

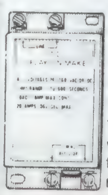
Sealed Unit Parts Solid State Relay and Overload



Provides emergency replacement for hermetic compressor relay and overloads from 1/8 through 1/3 HP, 115 or 220 volts.

No.	Model	HP Range	Voltage	Max. Amps. (FLA)
60470	RO-81	1/12-1/5	115	5.0
60472	RO-41	1/4-1/3	115	7.7
60473	RO-82	1/8 or less	220	2.1
60474	RO-86	1/6-1/5	220	2.5
60475	RO-84	1/4-1/3	220	3.8

Sealed Unit Parts TDM (Time Delay on Make) Relay



This multi purpose relay covers a wide range of voltages—from 24 thru 260 volts. AC or DC—1 amp. max. on continuous service. Time range is 1 to 5 minutes, using resistors supplied for 1, 3, or 5 min. Overall size, 2" wide x 3-1/2" high.

No.	Model
60476	TD-33

Sealed Unit Parts Pow-R-Pak Solid State For Hard Starting Units



This small sized unit acts as relay that can be used with a start capacitor. One model for 110V or 230V AC and for air conditioners from 4000 to 60,000 BTU about 1/2 through 5 H.P.
60570

MARS Adjustable Solid State Delay Timer

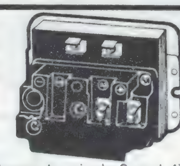
"Delay On Make"



Will operate on any voltage from 19 to 288 volts AC or DC. Can be mounted in any position. Solid state. Totally enclosed and encapsulated. Size: 2" x 2". ±2% Accuracy.

No.
38620

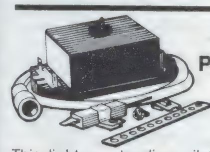
CAM-STAT Time Delay Relays



Amp. rating (between terminals 2 and 4) 13.8 AMPS at 120 VAC. 8.0 AMPS at 240 VAC (between terminals 1 and 4), 5.8 AMPS at 120 VAC, 2.9 AMPS at 240 VAC.

No.	Model Number	On timing at 24 Volts	OFF Timing After 2 Min. on Time	Switch
28180	S106-1A-45-75C	30-50 sec.	60-90 sec.	SPST
28181	S 106-1B-65-45C	60-70 sec.	45-75 sec.	SPDT

CAM-STAT Pilot Reigniter



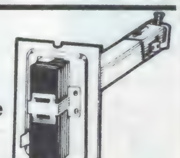
This lights a standing pilot by highly intense electrical sparks, provided that gaseous fuel (LPG, Natural Gas, etc) is available. If the pilot flame goes out, sparks immediately relight the pilot. Sparking stops as soon as the pilot flame is reestablished.

Specifications

Ambient Temperature: -40°F to + 175°F
Current Drain: 75 milliamperes maximum (sparking)
Recommended Spark Gap: 1/8 in. to 1/4 in. (125 to .250)
High Voltage Lead: 24 inch length.

No.	Model Number	Power Input
28187	PR-24-36W	24 VAC

CAM-STAT Interchangeable Limit Controls



These universal replacement limit controls have SPDT switches and incorporate a temperature adjustment to enable the installer to match the setting of the old device being replaced. N.C. contacts rated at 5.8 AMPS at 120 VAC and 2.9 AMPS at 240 VAC.
N.O. contacts pilot duty 120 VAC at 30. 120 & 240 VAC.

No.	Model No.	Element Length	Temp. Adjustment	Fixed Differential
28182	L59-3B-A	3 in.	150°-250°F	30°F
28183	L59-7B-A	7 in.		

RANCO Time Delay Sequence Control



This direct replacement time delay/sequence control.

FIG. 1

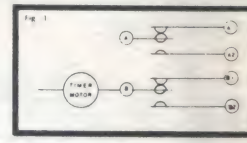
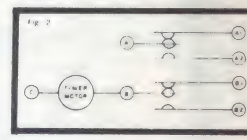


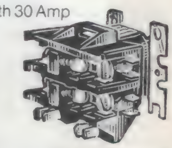
FIG. 2



No.	Ranco. No.	Replaces	Voltage	Fig.
30763	T34-129	Carrier	208/240	1
30769	T34-131	Carrier	208/240	2
30766	T34-132	York, ITT Nesbit	120	1
30771	T34-133	Carrier	120	2
30772	T34-153	Carrier, Rheem	24	1

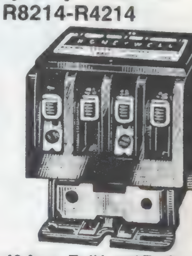
Light Duty Contactor

Has DPST switch with 30 Amp full load capacity.



No	Model	Poles	Voltage
70481	R8243B 1013	2	24
73640	R4243B 1004	2	120
73641	R4243B 1046	2	208/240

HONEYWELL Heavy Duty Contactor R8214-R4214



New 40 Amp. Full Load Rating Contactors

No.	R8214-	Poles	Operating Coil
73600	G1140	3	24V
73601	P1009	4	24V
	R4214-		
73602	G1347	3	120V
73603	G1354	3	208/240V
73599	P1016	4	208/240V

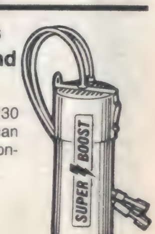
50 Amp. Full Load Rating Contactors

No.	R4220B	Poles	Coil
73370	1092	3	120V
73371	1100	3	208/240V
	R8220B		
73372	1051	3	24

60 Amp. Full Load Rating Contactor

No.	R4234B	Poles	Coil
73373	1054	3	120V
73374	1062	3	208/240V
	R8234B		
73375	1022	3	24

Sealed Unit Parts Hard Start Relay and Capacitor



One model for 115 or 230 volts. 4000 to 60,000 BTU can be used on any PSC Air Conditioning Compressor.

No.	Model
60594	SPP5
60597	SPP6

SEE SEPARATE PRICE LIST

FURNAS—Definite Purpose Contactors

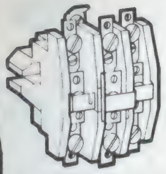


Fig. 1
Class 41

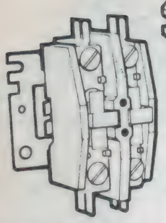


Fig. 2
Class 42

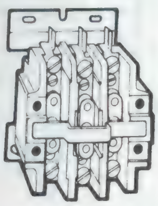


Fig. 3
Class 45

All coils can be used on 50 Hz. at these volts: 24V, 110V, 190/220 respectively. UL recognized.

CLASS 41N- 25 AMPS 600 V. MAX.

No.	Fig.	Furnas	Poles	Coil	Hz
72900	1	41NB30AJM	3	24V	50/60
72901	1	41NB30AFM	3	110/120V	60
72902	1	41NB30AGM	3	208/240V	60

2-3/4"H., 3-1/4"W., 2-5/8"D.

CLASS 45- 30 AMPS 600 V. MAX.

No.	Fig.	Furnas	Poles	Coil	Hz
72903	2	45EA20AJ	2	24V	50/60
72904	2	45EA20AF	2	110/120V	60
72905	2	45EA20AG	2	208/240V	60

3-1/4"H., 2"W., 2-1/2"D.

CLASS 42- 30 AMPS 600 V. MAX.

No.	Fig.	Furnas	Poles	Coil	Hz
72906	3	42BE35AJ	3	24V	50/60
72907	3	42BE35AF	3	110/120	50/60
72908	3	42BE35AG	3	208/240	50/60

3-5/8"H., 3-1/4"W., 3-3/8"D.

CLASS 42- 40 AMPS 600 V. MAX.

No.	Fig.	Furnas	Poles	Coil	Hz
72909	3	42CE35AJ	3	24V	50/60
72911	3	42CE35AG	3	208/240V	50/60
72912	3	42CE25AJ	4	24V	50/60
72913	3	42CE25AF	4	110/120V	50/60
72914	3	42CE25AG	4	208/240V	50/60

3-5/8"H., 3-1/4"W., 3-3/8"D.

CLASS 42- 50 AMPS 600 V. MAX.

No.	Fig.	Furnas	Poles	Coil	Hz
72915	3	42DE35AJ	3	24V	50/60
72916	3	42DE35AF	3	110/120V	50/60
72917	3	42DE35AG	3	208/240V	50/60

3-5/8"H., 3-1/4"W., 5-1/8"D.

CLASS 42- 60 AMPS 600 V. MAX.

No.	Fig.	Furnas	Poles	Coil	Hz
72918	3	42EE35AJ	3	24V	50/60
72919	3	42EE35AF	3	110/120V	50/60
72920	3	42EE35AG	3	208/240V	50/60

3-5/8"H., 3-1/4"W., 5-1/8"D.

Replacement Coils For Class 42 Contactors Nos. 72906 Thru 72920

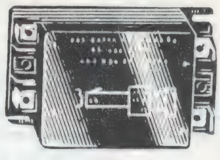
No.	Description
72921	24 Volts
72922	115 Volts
72923	208/230 Volts

Watsco Refrigeration Oil Pump



Pressurizes oil up to 250 P.S.I. and keeps dirt, moisture, and air out of the system. Fastens onto plastic oil container eliminating messy cleanups. Of high quality light-weight polymer so container won't get top heavy. No more spills in moving trucks or on customer's premises. Packaged with suction adapter to convert charge oil pump to a change oil pump.

1598



All Pro Linebacker For Short Cycle Protection

A small delay timer for single compressors to prevent short cycling by delaying the restart for a nominal 5 minutes (Actual 4 to 6 min.) after the circuit is opened for any reason. When current stops because the thermostat or switch opens or because of line failure the time delay timing starts and keeps the circuit open for a nominal 5 minutes. Then the timer closes the circuit and normal operation takes over.

Model EAC 100 For 24V AC Control Circuits

No.	Description
1563	5 Minute Short Cycle Protector

All Pro Linebacker For Short Cycle Protection For Single Or Multiple Compressors

Similar in every way to No. 1563 except that the time delay timing starts after the power is restored to the circuit.

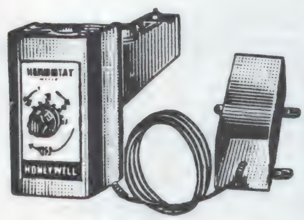
Model EAC 200.

No.	Control Voltage	Power Required
1565	120 Volts	1.8 Volt Amp.
1566	240 Volts	2.0 Volt Amp.

All Pro Linebacker With Under Voltage Monitor And With Short Cycle Protection.

Similar to No. 1563, the voltage drops below the rated "drop out" voltage for 1/2 second the timer also opens the circuit. It will not allow the compressor to start for a nominal 5 minutes and the current reaches the rated "pick-up" voltage. Then the timer will close and normal operation will take over. Model EAC 103.

No.	Line Voltage	Drop Out	Pick Up
1567	208/220/230 Volt	190 Volt	198 Volt
1568	230/240 Volt	202 Volt	210 Volt



Honeywell Moist-R-Balance Humidifier Controller

H403

Similar in operation to the No. 73531 humidifier control but with an additional compensating element remotely mounted against the outside of the plenum chamber. A change in outdoor temperature changes the heat load and the compensating element automatically adjusts the relative humidity control point. Has 66" capillary tube to connect to humidifier control set in the return air duct. Rated 4.4A 120V or 2.2A 240V full load. Range 0 to 50% RH with 6% non-adjustable differential. Insertion 7½" Max. temp. 125°F.

73519 H403A

Watsco Plug In Linebacker Under Voltage Monitor With Short Cycle Protector



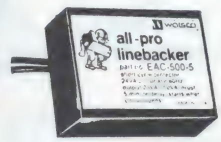
A pilot light shows when an undervoltage condition exists, and when the linebacker is in its timing cycle.

No.	Volt	Cycle	Amp.	Drop Out Volt	Pick Up Volt
1572	120V	50/60	15A	95V	103V
1576	230V	50/60	20A	190V	198V

All Timer Delay Specifications Allows Restart Nom. 5 Minutes (Actual 4-6 Min.)

Control AC Voltage	Control Rating In Rush	Run	Power Needed	Operating Temp
24V	250VA	25 VA	1.2 VA	32° to 190°F

Units may be stored at temperatures between -40° to 190°F

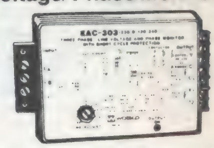


Watsco All Pro Linebacker

To wire series connection with 24V control wire. Time delay starts when circuit opens, will not affect temperature control. Device will secure to any clean and flat surface. Electronics are sealed in a shock proof moisture resistance plastic box.

No.	Model	On Break Delay time	Control Voltage
1579	EAC500-5	5 Min. ±20% on make	24 Vac.
1592	EAC600-3	3 Min. ±20% on make	24 Vac.
1593	EAC600-3	3 Min. ±20% on make	120/240 Vac.

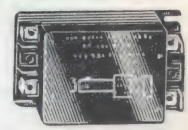
Watsco All-Pro Linebacker Controls For Short Cycle Protection With High And Low Voltage/ Phase Monitoring



All linebackers have adjustable voltage monitoring.

No.	Model EAC	Monitored Voltage	Control Voltage	Delay Time
1582	301	190-270V	—	None
1583	302	190-270V	24V	4-6 min.
1584	303	190-270V	120/240V	4-6 min.
1590	307	400-480V	—	None

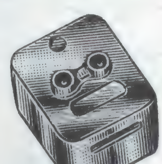
No.	Reset	Control Circuit Load Capacity	N.O. Contact
1582	Automatic or Manual	3A 24VAC 1A 240VAC	2A 120VAC
1583	Automatic	3A 24VAC	
1584	Automatic	2A 120VAC	1A 240VAC
1590	Automatic or Manual	3A 24VAC 1A 240VAC	2A 120VAC



Watsco All Pro Linebacker With Phase Sequence Phase Loss And Under Voltage Monitor With Short Cycle Protection

This Linebacker is for use with three phase compressors to protect against A single phasing when voltage on any line drops 17% and B if phase sequence is reversed and C under voltage when all 3 lines drop 10%. Model EAC 107. "Control Voltage 24 VAC."

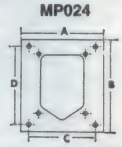
No.	Operating Voltage	Pick Up Voltage On One Phase	Pick Up Voltage On All Phase
1569	208 Volts	173V	187V
1570	220 Volts	183V	198V
1571	240 Volts	199V	216V



FRANCE COM-PAK Universal 3-Way Oil Burner Ignition Transformers

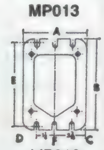
This ignition transformer takes the place of 12 different normally stocked transformers. Features 3 position terminal locations, base furnished with multi-taps to fit most replacement mounting plates. Available in two models, 120V or 240 V primary. 10000 volt secondary, 60Hz, 23 MA, 240 volt. Made to meet UL specifications. Approximate weight 10 lbs.

MP024



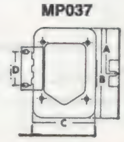
MP024
A = 5-3/4"
B = 6-5/8"
C = 4-5/8"
D = 5-5/8"

MP013



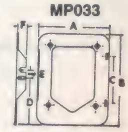
MP013
A = 4-15/32"
B = 6-3/4"
C-F = 2-3/16"
D-F = 1-1/4"
E = 6-1/4"

MP037



MP037
A = 3-3/8"
B = 6-3/4"
C = 4-1/2"
D = 2-1/2"

MP033



MP033
A = 4-7/8"
B = 6-5/16"
C = 3-5/16"
E = 9/16"
F = 11/16"

No.	
22180	Transformer 120 v. primary
22181	Transformer 240 v. primary
22182	Flat Mounting Plate
22183	Flat Mounting Plate
22184	Hinged Mounting Plate
22185	Hinged Mounting Plate

OEM REPLACEMENT TRANSFORMERS

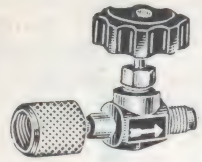
120VAC 60 Hz Primary, 10,000V. 23MA, 240VA Secondary

No.	Model	Replaces	Used On
22105	5LAY-03	LKG-4	Wayne Burners
22106	5LAY-04		Beckett A. AF Burner
22107	5LAY-05	LKL	Beckett S Burners
22108	5LAY-30	LKG-2	Wayne E Burners

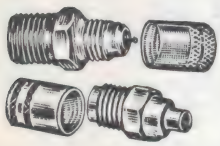
SEE SEPARATE PRICE LIST

Charging Valves

Charging Valve



No.	
21424	1/4" SAE Fem. Quick Coupler by 1/4" SAE Male Fitting
21401	Extra Gasket Only

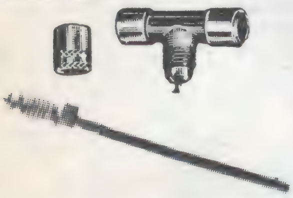


Access Fittings

No.	1/4" SAE Valve To
22788	1/8" Male IPT
22789	1/4" Male IPT

Solder Fittings To 1/4" SAE Valve

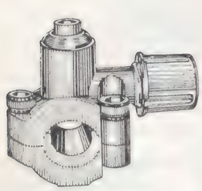
No.	Fits Tube	Or	Fits into Solder Fitting
22796	3/16" OD	Or	1/4" Fitting
22792	3/16" OD	Or	1/4" and3/8" Fitting
22790	1/4" OD	Or	3/8" Fitting
22797	5/16" OD	Or	1/2" Fitting
22791	3/8" OD	Or	1/2" Fitting



Solder Tee To 1/4" SAE Valve On Branch

No.	Description
22793	1/4" OD On Run
22798	5/16" OD On Run
22794	3/8" OD On Run
22795	Schrader Type Replacement Valve
22705	1/4" SAE Quick Seal Cap
22706	Valve Core Remover Cap
22772	Extra Gasket For Quick Seal Cap

No.	With 2" Long tube
1549	1/8" OD
1550	3/16" OD
1551	1/4" OD



Access Valve

No.	Fits Sizes
1580	1/4"-5/16"-3/8" O.D. Tubing
1581	3/8"-1/2" O.D. Tubing

Gold Seal Line Tap Valves



No.	Tubing
1474	3/16" OD
1475	1/4" OD
1476	5/16" OD
1477	3/8" OD
1478	1/2" OD
1479	5/8" OD



Quick Cap

No.	
22705	1/4" SAE Brass Cap

Gold Seal Control Valve



No.	
1470	Control Valve for Gold Seal Tapping Valves

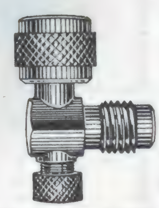


Charging and Purging Angle Valves

Side outlet 1/4" SAE.

No.	Bottom I.D.	Bottom O.D.
61622	1/4"	3/8"
61623	3/8"	1/2"
61625	1/2"	5/8"

Thumb Screw Core Depressor



1/4" male flare to allow core to be opened to the degree of flow desired.

60754

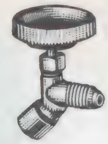
High Side Service Valve



1/4" SAE fem. flare swivel conn. to 1/4" SAE Male thread.

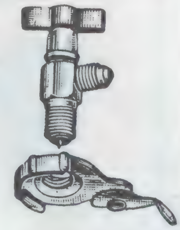
9385

Valve For Use On Dispos-A-Can



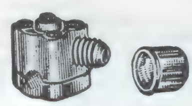
No.
21408

"Pierce-All" Can Tap Valve



Valve fits all threaded and flat top refrigerant cans. The cam lock adapter is placed on top.

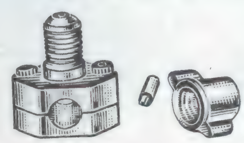
No.	Description
1502	Valve
1503	Extra Gasket



"Bullet" Charge and Tap Valve

No.	Tube
60500	3/16" OD
60501	1/4" OD
60502	5/16" OD
60504	1/2" OD
60508	3/4" OD
60509	7/8" OD
60514	One Size For 1/4"-5/16"-3/8" OD
60515	One Size For 1/2"-5/8" OD

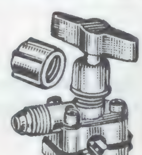
Line Tap Valve



For better control use No. 1504 valve with a depressor pin. Valves have 1/4" SAE connection.

No.	Tubing
1508	1/4, 5/16 or 3/8" OD
1509	1/2 or 5/8" OD

Adjustable Line Tap Valve



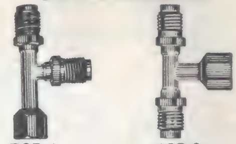
No.	For OD Tubing
1468	3/16" to 3/8"
1469	1/2" and 5/8"

Copper Access Fittings Kit

Reusable can contains 5 access fittings and assortment of 1/8", 1/4" and 3/8" copper tubes. Can be brazed or silver soldered.

60596

C & D Connectors

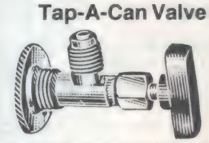


RSD-1 RSD-2

The end with 1/4" female flare has a depressor tip to depress and open a core on a sealed system, while one 1/4" male flare is attached to the control and the remaining 1/4" male flare has a core for access.

No.	1/4" Female Flare On
60751	Run
60752	Branch

Tap-A-Can Valve



Use valve with male spud screw top cans.

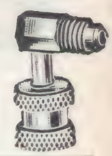
No.	Description
9382	Tap-A-Can Valve
23047	Gasket Only

Full Flow Access Fitting



No.	1/4" Access End
60536	Female 1/4" SAE
60537	1/8" Male Iron Pipe

Access Fitting 90º Swivel Adapter

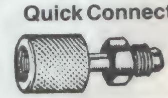


No.	1/4" SAE To
9384	1/4" SAE
9350	1/8" Female IPT

Straight Union Adapter

9351	1/8" Female IPT

Valve Opener Quick Connector



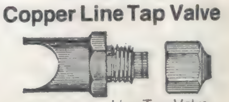
No.	1/4" Flare Quick Coupler With Other-End
22700	1/4" Male Flare
22701	1/4" Male Flare Elbow
22703	1/8" Female IPT
22704	1/4" Female IPT
22772	Extra Gasket For Quick Coupler

Kwik-Connect Charging and Testing Port



No.	1/4" SAE Outlet
23524	For 3/16" OD Tube
23525	For 1/4" OD Tube
23526	For 5/16" OD Tube
23527	For 3/8" OD Tube

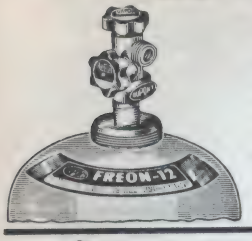
Copper To Copper Line Tap Valve



No.	Line Tap Valve
60755	1/4" Tubing
60756	5/16" Tubing
60757	3/8" Tubing
60758	1/2" Tubing
60759	5/8" Tubing

SEE SEPARATE PRICE LIST

Large Cylinders



Large cylinders 145 lb. and 125 lb. have a Freon Liquid Vapor Valve. With the cylinder standing upright on the floor, you can charge refrigerant vapor through the blue handle and liquid refrigerant through the red handle. The outlet is the standard 3/4" MIPT connections.

Refrigerant 30 lb. and 50 lb. Disposable Cylinders



Lightweight steel disposable cylinder with Zytel Nylon leak proof plastic hand valve with 1/4" SAE male connection.

Refrigerant-12

Dichloro-Difluro-Methane

No.	Size	No.	Size
9030J	15 lb.	**9015J**	50 lb.
9016J	30 lb.	**9229J**	145 lb.*

*Deposit on cylinder

Refrigerant-22

Monochloro-Difluro-Methane

No.	Size	No.	Size
9031J	15 lb.	**9008J**	50 lb.
9020J	30 lb.	**9009J**	125 lb.*

*Deposit on cylinder

Refrigerant-11

Trichloro-Monofluro-Methane

No.	Size	No.	Size
9024J	100 lb. 8 1/3 Gal.	**9026J**	650 lb. 54 1/8 Gal.
9025J	200 lb. 16 2/3 Gal.	**22207J**	50 lb. (Approx. 4 Gal.)

Refrigerant-11

Pressurized with Nitrogen Propellant
Used to clean and purge refrigeration systems with approx. 90 lb. pressure.

No.	Size
9029J	30 lb.

Refrigerant-114

Dichloro-Tetra-fluro-Ethane

No.	Size	No.	Size
9021J	30 lb.	**9023J**	150 lb.*

*Deposit on cylinder

Refrigerant-500

Azeotropic Mixture: Dichloro-Difluoro-Methane and Difluoro-Ethane

No.	Size	No.	Size
9032J	15 lb.	**9044J**	50 lb.
9048J	30 lb.	**9036J**	125 lb.*

* Deposit on cylinder

Refrigerant-13

Chloro-Trifluoro-Methane

No.	Size	No.	Size
9001J	9 lb.	**9027J**	23 lb.

Refrigerant-13 B1

Bromo-Trifluoro-Methane

No.	Size	No.	Size
9054J	10 lb.	**9055J**	28 lb.

Refrigerant-60/40

A 60% R-12 mixture with 40% R-114 used in place of R-12 in high ambient temperature air conditioning applications.

No.	Size
9088J	30 lb.

Refrigerant-14

Tetra-Fluoro-Methane

No.	Size
9061J	15 lb.

Refrigerant-113

Trichloro-Trifluoro-Ethane

No.	Size	No.	Size
9051J	100 lb.	**9052J**	200 lb.

Refrigerant-502

Azeotropic Mixture: Monochloro-Difluoro-Methane and Monochloro-Pentafluoro-Ethane

No.	Size	No.	Size
9033J	15 lb.	**9046J**	50 lb.
9049J	30 lb.	**15658J**	125 lb.*

*Deposit on cylinder

Refrigerant-503

Azeotropic Mixture: Chloro-Trifluoro-Methane and Trifluoro-Methane

No.	Size	No.	Size
9057J	9 lb.	**9058J**	20 lb.

Refrigerant in Disposable Cans

No.	Refrig.	Weight	Can Top
9368R	R-12	14 oz.	Screw
9372R	R-12	14 oz.	Flat
9367R	R-12 w/Dytel	14 oz.	Flat
15666R	R-22	1 lb.	Screw

Refrigerant With Dytel Red Liquid Detector

Dytel is a red dye dissolved in refrigerant which locates and marks a leak with a red stain.
14 oz. Flat Top Can

No.	Refrig.
9367R	R-12

In Disposable Cylinders

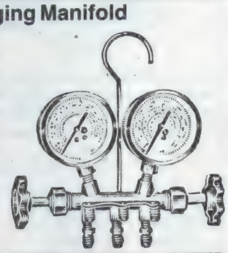
No.	Refrig.	Size	No.	Refrig.	Size
9018J	R-12	30 lb.	**9019J**	R-22	30 lb.

Robinair Manifold with Gauges



No.	Description
22710	Charging and Testing Unit. Complete outfit includes compound and pressure gauges, forged brass manifold bar and hose holder, hanging hook, and three 36" color coded charging hoses.
22711	Plastic Case

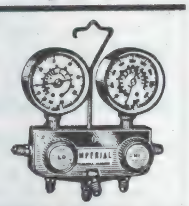
Iceberg Charging Manifold



Manifold has 2 1/2" dia. gauges with Lexan screw on crystals and R-12, R-22, and R-502 temp. scales. Front screw adjustment. Pressure gauge 0-500 PSI. Compound gauge 30 in. vacuum 120 PSI. retarded to 250 PSI.

No.	Description
27075	Manifold with gauges
27077	Pressure gauge
27078	Vacuum gauge

Imperial System Analyzer



Charging-Testing-Purging Manifold

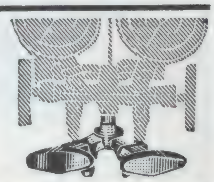
No.	Description
16356	Manifold Only without hoses or gauges
16367	Case only
16359	Manifold without hoses but with 2 1/2"-30" to 250 lb. Comp. and 500" lb. Press. Gauges

Imperial 4-Valve System Analyzer

One hook up allows you to analyze, evacuate, and charge without changing connections. Oversize internal porting and 3/8" flare vacuum connection reduces evacuation time. Other connections are 1/4" male flare. Matching 2 1/2" color coded gauges have Lexan crystals removable for calibration.

No.	Description
16385	4 valve analyzer with gauges, hose closures and hanging hook.
16391	Carrying case

Manifold Conversion Unit



This adapter unit with 1/8" MPT connects to center part port of conventional manifolds.

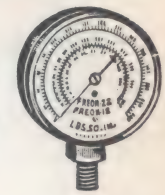
No.	
16384	Conversion unit

Gauge Crystals



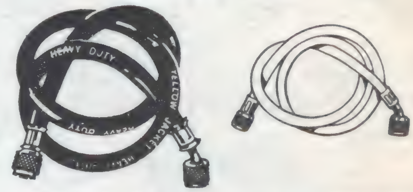
No.	Size
2459	For 2" gauge
2469	For 2 1/2" gauge
2480	For 3 1/2" gauge

Gauges for Manifolds



No.	Description
16361	Pressure gauge 0 to 500 lb. with black scale and R-12 and R-22 red temp. scale with front recalibration, without hoses
16362	Comp. retard gauge with green 0 to 30" vacuum, black 60 lb. pressure scale with retard to 250 lb. and R-12 and R-22 temp. scale in red, without hoses

Charging Hoses



Yellow Jacket Heavy Duty Charging Hose

Yellow Jacket charging hoses have a working pressure of 500 PSI and burst pressure of 2500 PSI.

1/4" SAE — 36" Long Charging Hoses

No.	Description	No.	Description
27090	Blue	**27092**	Red
27091	White	**27093**	Yellow

60" Long Charging Hoses

No.	Description	No.	Description
27094	Blue	**27096**	Red
27095	White	**27097**	Yellow

3/8" SAE

No.	Description	No.	Description
27061	36"	**27063**	60"
27062	48"		

Yellow Jacket Heavy Duty High Vacuum Hose

2000 PSI burst pressure, 500 PSI working pressure with 5/16" I.D. for vacuum loss reduction. Hose is black 2-braid with thick wall for R-22. Fittings: 1/4" angle flare QC one end with adjustavalve opener, 3/8" flare straight fitting other end.

No.	Description	No.	Description
27050	48" long	**27051**	60" long

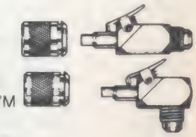
HACO Charging Hoses

Set of three

Hoses have a working pressure of 500 PSI, with 1/4" SAE and burst pressure of 2500 PSI.

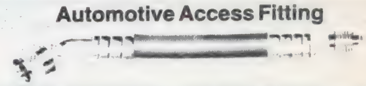
No.			
27064	36"	**27066**	72"
27065	60"		

Kwik Coupler



No.	Description
9320	Straight coupler 1/4" F x 1/4" M
9321	90° Elbow Coupler 1/4" F x 1/4" M

Automotive Access Fitting



Permits easy access to tight places. 3/16" female connector with 1/4" male flare fitting for connecting to manifold hose.

49476 Flex fitting

Liquid Low Side Charger



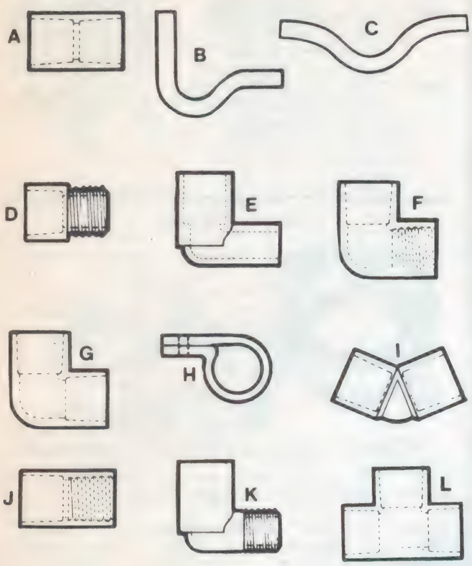
The Kwik Charge takes liquid refrigerant from the container and charges saturated vapor into the low side of the system. The charging rate is eight times faster than vapor charging, a metering element keeps the liquid flow below the capacity of the compressor. 1/4" female SAE inlet; 1/4" male SAE outlet.

16380

SEE SEPARATE PRICE LIST

Fittings/Coils

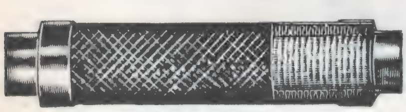
Rigid Plastic Condensate Drain Pipe Fittings



.84 is ½" Nominal, 1.05 is ¾" Nominal Plastic Fittings

Part No.	Fig.	Description
22320	A	Coupling .84" ID
22321	A	Coupling 1.05" ID
22322	B	P-Trap .84" ID
22323	B	P-Trap 1.05" ID
22324	C	Running Trap .84" ID
22325	C	Running Trap 1.05 ID
22326	D	Adap. (MPTxS) 3/4MPTx.84" ID
22327	D	Adap. (MPTxS) 3/4MPTx1.05 ID
22328	E	90° Street Elbow .84" ID
22329	E	90° Street Elbow 1.05 ID
22330	F	90° Elbow (3/4" FPTx.84" ID)
22331	F	90° Elbow (3/4" FPTx1.05" ID)
22332	G	90° Elbow (SxS) .84" ID
22333	G	90° Elbow (SxS) 1.05" ID
22334	H	Pipe Strap for .84 Pipe (per bag of 25)
22335	H	Pipe Strap for 1.05 Pipe (per bag of 100)
22336	I	45° Elbow .84" ID
22337	I	45° Elbow 1.05" ID
22338	J	Adap. (FPTxS) 3/4x.84" ID
22339	J	Adap (FPTxS) 3/4"x1.05 ID
22340	K	90° Elbow (3/4"MPTx84" ID)
22341	K	90° Elbow (3/4"MPTx1.05" ID)
22318	L	.8410
22319	L	1.0510
		Drain Pipe
22342		.84"ODx10' Long
22343		1.05"ODx10' Long
		PVC Cement
22344		1/4 Pint
22345		1/2 Pint
		All Purpose Cleaner
22346		1 Pint

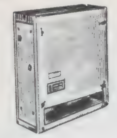
Vibration Absorber



Made of a flexible, seamless, corrugated, bronze tubing covered with a metal braid and fitted with female copper tubing ends.

No.	For OD Tube	Overall	No.	For OD Tube	Overall
3238	1/4"	7-1/2"	**3203**	7/8"	11-1/2"
3239	3/8"	8-1/4"	**3204**	1-1/8"	13"
3200	1/2"	9"	**3205**	1-3/8"	14-3/4"
3201	5/8"	9-3/4"	**3206**	1-5/8"	17"
3202	3/4"	11-1/4"	**3207**	2-1/8"	20"

Bohn Kompact Mullion Unit Cooler Model KM



Mounted on back wall or mullion. 5-1/2" deep; 1/2" SAE inlet.

No.	High	Wide	Motor	CFM	Weight
	Overall In Inches				
60358M	17-3/4	15-5/8	2—48W	180	16 Lb.
60359M	19-3/4	15-5/8	2—48W	200	18 Lb.
60360M	19-3/4	22	3—75W	300	24 Lb.

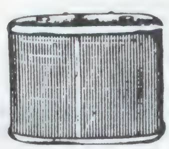
No.	BTU Per Hour 10°TD	15°TD	Outlet
60358M	1250	1875	3/8" OD
60359M	1650	2475	3/8" OD
60360M	2200	3300	1/2" OD

Bohn Mullion Unit Model UM

Designed for reach-ins, dough retarders, and pass-through boxes for installation behind the mullion. 4-1/4" deep; 22" wide; 38" high; 1/2" SAE inlet. Coils are protected by vinyl to prevent attack by food acids.

No.	BTU Cap 1° Temp. Diff.	CFM	Suct. Conn.
21993M	130	220	3/8" OD
21994M	170	245	1/2" OD
21995M	230	285	1/2" OD

Bohn Dual Air Cooler



Model U has the air drawn in through curved front and out through the sides making two passes over the coil. Model UF has the air drawn in through the sides and out the front. Life lubricated motor and drip pan with drain connections incl. Inlet 1/2" SAE 115V 50/60C.

Model U	Model UF	Capacity 1°TD	CFM	Outlet
21978M	**22987M**	85 BTU	190	3/8" OD
21979M	**22988M**	115 BTU	250	3/8" OD
21980M	**22989M**	150 BTU	310	1/2" OD

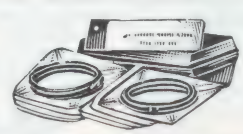
Model U	High	Wide	Deep
	Overall In Inches		
21978M	8-1/2	11-1/2	8-7/8
21979M	8-1/2	17-1/2	8-7/8
21980M	8-1/2	17-1/2	10-3/8

Fan Control and Defrost Control

These controls are used in Bohn low temperature electric defrost cooling units. Exact replacement with leads with push on terminals. Has 1-5/8" mounting hole centers.

No.	Bohn	Description
60374	5521R	Defrost Control (No. 60374 Opens 40°F. Closes 50°F.)
60375	5507S	Fan Control (No. 60375 Opens 39°F. Closes 29°F.)

Capillary Tube Kit



Kit has 12 different sizes of cap, tubing used on 1/20 HP to 5 HP refrigeration and air conditioning units. Each size is resealable and clear plastic bags.

Kit Contains 12 Capillary Tube Sizes

NID	Long	ID	Long	ID	Long	ID	Long
.026	16 Ft.	.042	12 Ft.	.064	10 Ft.	.080	10 Ft.
.031	12 Ft.	.049	11 Ft.	.070	12 Ft.	.085	9 Ft.
.036	12 Ft.	.054	11 Ft.	.075	9 Ft.	.090	7 Ft.
60721							

Replacement Motors For Bohn Units

No.	Bohn	Replaces Motor
60417	5001M	BC-102-2,-4; 118N270, -291; AK4K10B; B16CW71
60418	5002M	7610V60T585A7679; 86N-019-2; 200N099; CR685B,-Z; DE3G-004N; U71A12,A3792
60421	5030SS	AG2210-A
60430	5001L	118N268, R16CW68, AK4K10A
60432	5008T	AK48252, 5KSM59L 52262S, U637163-2573
60444	5034L	R22CW92, AA2R030N, AK45106A, 5KSM 59JSK 143S
60435	5034M	AA2R031N, R22CW94, AK45106Z, 5KSM 59JSK144S
60436	5036G	86, AG 2210B

No.	H.P.	Volt	RPM	Shaft
		Dimensions In Inches		
60417	1/40	230	1550	5/16
60418	1/5	230	1050	1/2
60421	1/150	115	2800	.182
60422	5 Blade 5-1/2" fan blade 60421 motor. 5101B			
60430	1/40	115	1550	5/16
60432	1/15	208/230	1550	5/16
60444	1/24	115	1550	5/16
60435	1/24	230	1550	5/16
60436	1/150	230	2800	.182

Bohn Ceiling Units For REach-in Boxes Model C



Space savers for florist and dairy boxes. With enclosed oilless type fan motor, coil air travel down back wall cuts velocity. High humidity, even temperature. Drain 1/2" OD. Model C Cap. 1° F. 115V 50/60C. Inlet 1/2" SAE nut.

No.	High	Wide	Deep	Weight	Motor
21982M	8¾	14⅜	14⅜	16 lb.	33W
21983M	8¾	17⅜	14⅜	19 lb.	33W
21984M	9¾	20⅜	15⅜	23 lb.	76W
21989M	10¾	23⅜	16⅜	29 lb.	76W

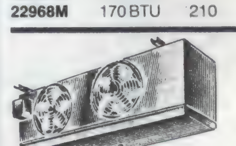
No.	Cap. 1°F Temp. Diff.	CFM	Outlet
21982M	130 BTU	220	⅜" OD
21983M	170 BTU	285	½" OD
21984M	230 BTU	385	½" OD
21989M	300 BTU	500	½" OD

Top-Aire Units Only 4-1/2" High Model TA

Drain 1/2". Inlet 1/2" SAE nut.

No.	High	Wide	Deep	Wt.	No. Motors	Watts
22966M	4-1/2	16-1/2	14	12 Lb.	1	24
22967M	4-1/2	20-1/2	14	16 Lb.	2	48
22968M	4-1/2	24	15	18 Lb.	2	48

No.	Cap. 1°F Temp. Diff.	CFM	Outlet
22966M	100 BTU	120	3/8" ID
22967M	130 BTU	170	3/8" ID
22968M	170 BTU	210	1/2" ID



Russell T-Temp Compact Unit Coolers With Russ-Proof Core

Copper tube with aluminum housing and fins and lifetime lubricated motor. Air is drawn over the motor and out through the coil. 115V, 60 cycle, 1 phase, 1/2" inlet SAE, 1/2" O.D. drain.

No.	Cap. BTU 10°TD	Motor No.	Motor H.P.	Fan	CFM	Suction OD
64741	800	1	1/60	1—6"	200	3/8"
64742	1300	2	1/60	2—6"	380	3/8"
64743	1700	2	1/60	2—6"	360	1/2"

No.	Overall Dimensions Wide	Deep	High	Ship Wt.
64741	13-3/4"	6"	7-1/4"	12 Lbs.
64742	19-1/4"	6"	7-1/4"	14 Lbs.
64743	19-1/4"	7"	7-1/4"	17 Lbs.

SEE SEPARATE PRICE LIST

Russell Low Profile Unit Coolers For Low Temperature Application With Electric Defrost

These low temperature coolers have a low silhouette of 14" high and are 15" deep. They are used for temperatures of -20° to + 34°F. Comes with electric defrost heaters, fan delay switch and defrost control all pre-wired. Motors are lifetime lubricated and thermal overload protected. Drain pan and panels are removable for easy access to coolers. Aluminum housing with copper tube and aluminum fins. Drain fit is 3/4" NPT. Air is drawn through the coil, over the fan motor and discharged. BTU capacity at 20° evaporator temperature.

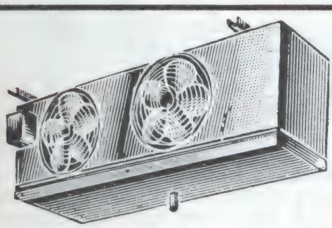
No.	Wide	Inlet SAE	Suction OD	No. Fans	Wt. Lbs.	Voltage
64787-96	27-3/8"	1/2"	5/8"	1	49	230/60/1
64788	45-3/8"	1/2"	5/8"	2	65	230/60/1
64789-98	45-3/8"	1/2"	5/8"	2	70	230/60/1
64790-99	45-3/8"	1/2"	5/8"	2	79	230/60/1
64791-800	63-3/8"	1/2"	5/8"	3	100	230/60/1

4 Fins Per Inch

No.	BTU Capacity 10°TD	BTU Capacity 15°TD	CFM
64787	3400	5100	625
64788	4000	6000	1500
64789	5300	7950	1370
64790	6800	10200	1250
64791	8000	12000	2060

6 Fins Per Inch

No.	BTU Capacity 10°TD	BTU Capacity 15°TD	CFM
64798	7200	10800	1320
64799	9200	13800	1200
64800	11000	16500	1980



Russell Low Profile Unit Coolers For Medium Temperature Applications

Cabinets are low profile 14" high, 15" deep. Russ proof all aluminum housing, copper tubing and fins. Drain pans and panels are removable for easy access. Air is drawn through the coil, over the motors and discharged. Motors are life lubricated and thermal overload protected. Inlet 1/2" SAE, 3/4" drain.

Low Profile Unit Coolers For Medium Temperature 115 Volt 60 Cycle Single Phase

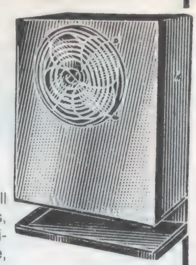
No.	Wide	Inlet SAE	Suction OD	Ship Wt. Lbs.	CFM
64700-09	27-3/8"	1/2"	5/8"	46	625
64701-10	45-3/8"	1/2"	5/8"	62	1500
64702-11	45-3/8"	1/2"	5/8"	67	1370
64703-12	45-3/8"	1/2"	5/8"	76	1250
64704-13	63-3/8"	1/2"	5/8"	160	2060
64705-14	63-3/8"	1/2"	7/8"	110	1875
64706-15	81-3/8"	1/2"	7/8"	145	2500
64707-16	99-3/8"	1/2"	1-1/8"	225	3125
64708-17	117-3/8"	1/2"	1-1/8"	245	3750

No.	BTU Capacity 10°TD	BTU Capacity 15°TD	No. Fans	
64700	4100	6150	1	**4 Fins Per Inch**
64701	4840	7260	2	
64702	6400	9600	2	
64703	8200	12300	2	
64704	9680	14520	3	
64705	12300	18450	3	
64706	16400	24600	4	
64707	20600	30900	5	

No.	BTU Capacity 10°TD	BTU Capacity 15°TD	CFM	
64709	5100	7600	600	**6 Fins Per Inch**
64710	6200	9300	1440	
64711	7900	11800	1320	
64712	10100	15100	1200	
64713	12100	18100	1980	
64714	15300	22900	1800	
64715	20400	30600	2400	

Russell Wall Temp Panel Coolers

With Complete Russ Proofing

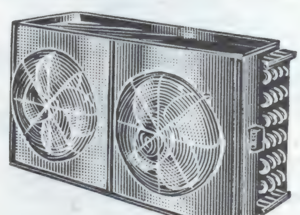


Used for mullion, back wall or side wall mounting. Aluminum housing and fins, copper tubing, drain pan, and life lubricated motor. 115V, 60 cycle, 1 phase, outlet 1/2" SAE.

No.	Capacity BTU/Hr. 10°TD	Fan Diam.	Motor H.P.	CFM	Liquid Conn.	Suction Conn.
64770	600	8"	1/180	115	3/8" SAE	3/8" SAE
64771	900	8"	1/80	140	3/8" SAE	3/8" SAE
64772	1200	8"	1/80	175	1/2" SAE	1/2" SAE
64773	1800	8"	1/80	260	1/2" SAE	1/2" SAE
64774	2500	10"	1/30	360	1/2" SAE	5/8" SAE
64775	3500	10"	1/30	500	1/2" SAE	5/8" SAE

No.	Overall Dimensions In Inches Wide	Deep	High	Ship Wt. Lbs.	No.	Overall Dimensions In Inches Wide	Deep	High	Ship Wt. Lbs.
64770	12	4-3/8	17-7/8	11	**64773**	18	4-3/4	19-7/8	24
64771	12	4-3/8	17-7/8	14	**64774**	18	8-1/2	26	28
64772	18	4-3/4	19-7/8	20	**64775**	18	8-1/2	26	29

Russell Model RAC Remote Air Cooled Condensers



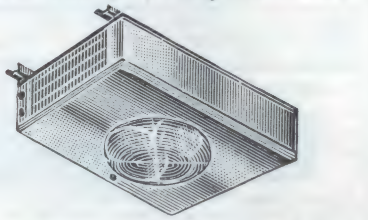
Direct drive propeller fans designed for remote condenser systems and can be mounted within a ventilated space or outdoors. Horizontal or vertical discharge with mounting legs, light weight aluminum housing. Motors are life-time lubricated and thermal overload protected.

With 230 Volt 60 Cycle, 1 Phase Fan Motors For Horizontal Air Flow Discharge

No.	Overall Dimensions In Inches Wide	Deep	High	No. Tons	CFM
64808	25	26-1/4	22	2	2500
64809	25	26-1/4	22	3	2800

No.	Fans Qty.	Diam.	OD Connections Inlet	Outlet	Ship Wt. Lbs.
64808	1	20"	5/8"	5/8"	110
64809	1	20"	7/8"	7/8"	145

Russell Twin Temp 2 Way Unit Coolers

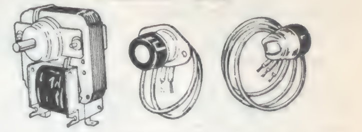


Copper tubing with aluminum housing and fins with 115V, 60 cycle, 1 phase lifetime lubricated motor. 1/2" drain connection on 12,000 BTU or under; 3/4" on 15,000 BTU and over. 64744-64747 standard with Russ-Proof core.

No.	BTU/Hr. 10°TD	Fan Diam.	Motor H.P.	CFM	Inlet Conn.	Suction Conn.
64745	1200	8"	1/180	190	1/2" SAE	1/2" SAE
64746	1800	8"	1/80	260	1/2" SAE	1/2" SAE
64747	2500	10"	1/30	350	1/2" SAE	1/2" SAE
64748	3500	10"	1/30	440	1/2" SAE	1/2" SAE
64749	4500	12"	1/30	530	1/2" OD	5/8" OD

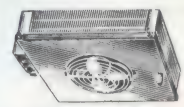
No.	Drain Conn.	Dimensions In Inches Wide	High	Deep	Ship Wt. Lbs.
64745	1/2" OD	16	6-7/8	19-1/2	19
64746	1/2" OD	16	8-3/8	19-1/2	23
64747	1/2" FP	18	8-7/8	21-1/2	26
64748	1/2" FP	18	10-1/2	21-1/2	28
64749	1/2" FP	21	10-1/2	31-1/2	44

Russell Parts



No.	Description
64821	#13079-03 2 Wire Heater Safety or Fan Delay Flange Mount
64822	#13079-02 3 Wire Defrost Termination and Fan Delay Switch
64823	35 Watt (Input) 115V 3250 RPM Motor
64824	#621 Fan Blade For Above
64825	16 Watt 115V 1550 RPM Motor for "AL" Model Coils
64826	R 1031 Fan Blade For Above

Russell Mini Twin Temp Height Saver Cooler Units With Rustproof Core



Vinyl coated core, have copper tube and all aluminum housing. 115V, 60 cycle, 1 phase. 1/2" S.A.E. flare nut inlet. U.L. CSA and NSF listed.

No.	Capacity BTU/Hr. 10°TD	Motor No.	H.P.	Fans	CFM	Suction OD
64761	800	1	1/60	1-6"	200	3/8"
64762	1300	2	1/60	2-6"	400	3/8"
64763	1800	2	1/60	2-6"	380	3/8"
64764	2700	3	1/60	3-6"	570	1/2"

No.	Overall Dimensions In Inches Wide	Deep	High	Ship Wt. Lbs.
64761	14-1/4	13	3-1/4	9
64762	19-1/4	13	3-1/4	13
64763	19-1/4	13	3-1/4	13
64764	28-1/4	13	3-1/4	17

Russell Hi-Temp Unit Coolers

These unit coolers are made of copper tubing and aluminum housing. Rated 115V, 60 cycle, 1 phase. Air flows in through the fan and out through the coil. Drain outlet ½". Units 64730 through 64732 standard with Russ—Proof Core.

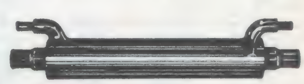
Hi Temp Unit Coolers 115 Volt 60 Cycle 1 Phase

No.	Capacity BTU/Hr. 10°TD	Fan Diam.	Motor H.P.	CFM	Connection Suction OD	Liquid OD
64730	1500	8"	1/80	270	3/8"	3/8"
64731	1800	10"	1/80	325	1/2"	1/2"
64732	2500	10"	1/80	450	5/8"	1/2"
64733	3500	12"	1/30	490	5/8"	1/2"
64734	4500	12"	1/30	575	5/8"	1/2"

No.	Overall Dimensions In Inches Wide	Deep	High	Ship Wt. Lbs.
64730	12	8	9	15
64731	18	12-3/4	12	21
64732	18	12-3/4	12	24
64733	20	18-1/2	15-1/2	35
64734	20	18-1/2	15-1/2	41

"Heat-X" Cast Aluminum Heat Exchanger

B.T.U. capacity with 5 Superheat entering gas, 100 entering liquid, 105 condensing temperature and 50 suction outlet temperature.



Heat Exchanger



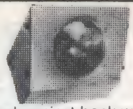
Cross Section

No.	Max. H.P.	With OD Solder Connections Liquid	Suction	Long	Diam.
29304	⅓	¼"	½"	8"	1-½"
29305	¾	¼"	½"	11"	1-½"
29306	1	⅜"	⅝"	14-½"	1-⅝"
29307	1-½	⅜"	⅞"	15-⅜"	2-⅛"
29308	3	½"	1-⅛"	14-¾"	2-⅜"
29309	7-½	⅝"	1-⅝"	15-⅝"	3-⅝"
29310	10	⅞"	2-⅛"	18-⅛"	4-⅞"

SEE SEPARATE PRICE LIST

Coils/Condensers

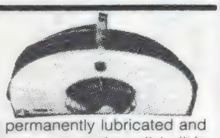
Peerless Slope Front Unit Cooler



Unit mounts above shelves with air diffused against back wall. Aluminum casing and fins, Electro-Tin-Plated Copper Tubing, Permanently Lubricated motor.

No.	High	Wide	Deep	Weight	BTU Cap at 10°TD	CFM	Outlet
60460	8¾"	14⅜"	14¼"	18	1300	225	—
60461	8¾"	17⅜"	14¼"	20	1700	290	½
60462	9¼"	20⅜"	15¼"	25	2300	400	½
60463	10¾"	23⅜"	16¼"	30	3000	500	½

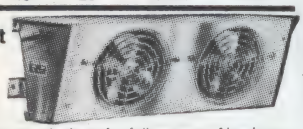
Peerless Half Dome Extra Low Height



Air enters the bottom of the unit and is dispersed through 180 outlet face. Drain pan is white plastic. Motors permanently lubricated and overload protected. Aluminum fins and copper tube coil, built in heat exchanger. Expansion valve not included.

No.	High	Wide	Deep	BTU Cap 10° TD	CFM
60492	7"	35½"	21"	3500	800
60493	8½"	35½"	21"	4500	900
60494	8½"	45"	26"	6000	1300
60469	13"	45"	26"	9000	1800

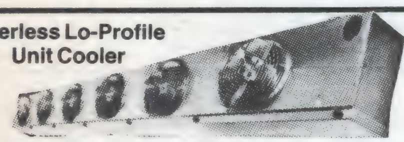
Peerless Midjet Unit Cooler



Front panel and drip pan are 1 piece for full access. Aluminum housing and fins; electro-tin plated tubing. Life lubricated and overload protected 115V, 60 cycle, 1 phase motor.

No.	Capacity BTU/Hr. 10°TD	Wide	Deep	High	CFM	Suction
60440	700	12⅝	7¾	6-15/16	140	⅜
60441	1200	19½	8¾	6-15/16	250	⅜

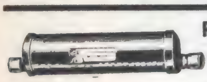
Peerless Lo-Profile Unit Cooler



Unit has a height of 14", depth of 12". Aluminum housing and removable drain pan. All units incorporate external equalizer ¼ O.D.

No.	Wide	Weight	BTU Cap. at 10° TD	CFM	No. of fans
60466	33½"	47	6000	600	1
60467	39"	53	7500	1200	2
60468	45"	63	10000	1200	2

Refrigeration Research Discharge Mufflers



Designed to smooth out pulsations and reduce vibrations.

No.	Nom. Ton Capacity	O.D.	Length	Fitting O.D.
29420	5	2"	7-7/16"	⅝"
29421	7-½x10	3"	9"	⅞"
29422	10-15	3"	9-¼"	1-⅛"
29423	15-25	3"	13-¾"	1-⅜"
29424	25-50	4"	16"	1-⅝"

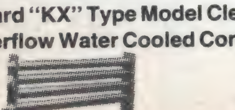
Refrigeration Research Vertical Receiver With Valves



Small receiver has valves with SAE connections and bottom mounting stud. Inlet is SAE fitting. Each receiver has 362°F. fusible plug. Pump down for R-22 use 90% and for R-12 use 110% of listing in pounds.

No.	Diam. Long	Pump Down	Inlet SAE	Valve SAE
29410	3½"x10"	3 lbs.	¼"	¼"
29411	4"x10"	4 lbs.	¼"	¼"
29412	5"x10"	6 lbs.	¼"	¼"
29413	6"x12"	10 lbs.	⅜"	⅜"
29414	6"x18"	16 lbs.	⅜"	½"

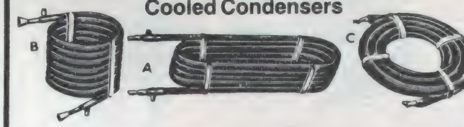
Standard "KX" Type Model Cleanable Counterflow Water Cooled Condenser



Shell and tube type, removable end caps. Copper/steel const.

No.	H.P.	Size	Pumpdown	Water Fittings	Refrigerant In	Refrigerant Out
12962	2	4x13x27	3	¾	½	⅜
12963	3	4x13x35	5	¾	⅝	½
12964	5	5x16x36	6	1	⅞	⅝
12965	7½	6x18x42	10	1¼	⅞	⅞
12966	10	6x18x42	12	1¼	1⅛	⅞

Edwards Counterflow Co-Axial Water Cooled Condensers



5 HP, 7-1/2 HP, and 10 HP have 2 coils manifold in parallel to reduce pressure drop. You can connect like condensers in parallel and add the capacity of each condenser without increasing the pressure drop, to build up larger capacity condenser.

H.P.	Refrigerant Connection	Water Connection
1/3, 1/2, 3/4 and 1 HP	3/8" ID	1/2" OD
1-1/2 and 2 HP	3/8" ID	5/8" OD
3 HP	3/8" ID	3/4" OD
5 HP	5/8" OD	1-1/8" OD
7-1/2 HP	5/8" OD	1-1/8" OD
10 HP	5/8" OD	1-1/8" OD

(Approx. shipping weight is 8-1/2 lbs. per ton capacity.)

No.	Fig.	H.P.	Overall Long	Wide	High
29620G	A	1/2	17"	7-1/4"	1-3/4"
29621G	A	3/4	17"	7-1/4"	2-5/8"
29622G	A	1	17"	7-1/4"	3-1/2"
29623G	A	1-1/2	17"	7-5/8"	5-1/8"
29624G	A	2	17"	7-5/8"	6-1/8"
29625G	A	3	17"	7-5/8"	8-3/4"
29626G	A	5	18-3/8"	13"	10-3/8"
29628G	A	7-1/2	20"	12-1/2"	13-1/2"
29630G	A	10	19-1/2"	14-1/2"	15-1/2"
29631G	B	1/8	10-3/4"	9-3/4"	1-7/8"
29632G	B	1/2	10-3/4"	9-3/4"	2-5/8"
29633G	B	3/4	10-3/4"	9-3/4"	3-3/4"
29634G	B	1	10-3/4"	9-3/4"	4-5/8"
29635G	B	1-1/2	11"	10"	7-1/4"
29636G	B	2	11"	10"	10"
29637G	B	3	13"	12"	9-1/2"
29639G	C	1	12"	12-1/2"	2"
29640G	C	1-1/2"	14"	14-1/4"	2-1/8"
29641G	C	2	15-3/8"	15-3/4"	2-1/4"
29642G	C	3	15-3/8"	15-3/4"	2-1/2"
29643G	C	5	16-1/2"	15"	5-1/4"
29644G	C	7-1/2	22"	20-1/2"	5-5/8"

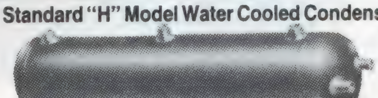
Standard "V" Water Cooled Condenser



Compact vertical shell and coil condenser used when space is limited. Only 24633 and 34 have extra center tower connection as shown.

No.	H.P.	Sizes	Pumpdown	Water Fittings	Refrigerant In	Refrigerant Out
24625	½	5x14	6	⅜	½	½
24626	1	6x18	12	⅜	⅝	½
24629	3	8⅝x18	18	¾	⅞	⅝
24630	5	10¾x18	33	1	1⅛	⅝
24635	7½	12¾x21½	37	1	1⅜	⅞
60122	10	14x26	95	1¼	1⅝	1⅜
With extra 1-1/4 tower connection						
24633	5	10¾x20	39	1	1⅛	⅝
24634	7½	10¾x23½	42	1	1⅜	⅞

Standard "H" Model Water Cooled Condenser



Compact horizontal shell and coil condenser. Construction similar to "V" model. Has generous pumpdown capacity.

No.	H.P.	Size	Pumpdown	Water Fittings	Refrigerant In	Refrigerant Out
12380	¼	4x20	6	⅜	½	½
12381	⅓	4x28	10	⅜	½	½
12386	1	6x30	24	⅜	⅝	⅝
24620	2	6⅝x38	35	¾	⅞	⅝
24621	3	8⅝x32	47	1¼	⅞	⅝
24622	5	8⅝x42	62	1¼	1⅛	⅞
24623	7½	10¾x42	101	1¼	1⅛	1⅛

Standard Mounting Brackets For Round Shells

Mounting brackets for round receivers and condensers. May be used for top, bottom, or side mounting. Dimensions are in inches.

No.	OD Shell	Base Wide	Mtg. Hole Center
24538	6	7	5½
24539	6⅝	7	5½
24540	8⅝	9	8
24541	10¾	11	10

Standard Upright Liquid Receiver Model L



Flat bottom for easier mounting has 3/8"-16 stud 3/4" long Rotolock outlet valve with connections adjustable in any direction. Has fusible plug. Inlet is copper spud.

No.	Diam.	High	Inlet Solder	Outlet SAE	Pump Down R-12 Lbs.
24691U	5"	14"	⅜" ID	⅜"	8.5
24692U	5"	16"	½" ID	½"	10.0
24693U	6"	18"	½" ID	½"	14.2
24694U	6"	23"	½" ID	½"	19.0

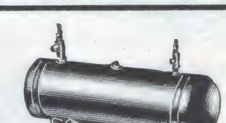
Standard "J" Model Compact Water Cooled Condenser



Has bottom stud mounting and safety connection.

No.	H.P.	Size	Pumpdown	Water Fitting	Refrigerant In	Refrigerant Out
24497	⅓	6x5	3	⅜	⅜	½
24498	½	6x5½	3	⅜	⅜	½
24499	¾	6x6	3½	⅜	½	½
24508	1	6x7½	5	⅜	½	½
With Supporting Legs						
60120	1½	8⅝x11	16	½	⅝	⅝

Standard Liquid Receivers, Model RBV

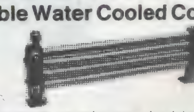


Of steel, with rotolock valves and welded brackets. Have discharge line connection at one end and liquid shutoff valve with installed pick-up tube at the other end. The center tap will accommodate your pressure relief valve.

No.	Pump R-12	Down R-22	Height Without Mtg. Bracket	Length	Mtg. Bracket Center to Center
12310	17	16	5"	28"	14"
12312	41	37	6⅝"	38"	19"
12313	67	61	8⅝"	36"	18"

No.	Pressure Relief Valve Size	Inlet-Outlet Valve Size	Shpg. Wt.
12310	⅜"	½"	23 Lbs.
12312	½"	⅝"	50 Lbs.
12313	½"	⅞"	70 Lbs.

Standard ELF Model Cleanable Water Cooled Condenser

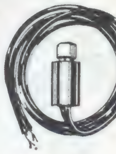


Compact replacement condenser double tube, counterflow design for heat transfer. End plates easily removed for safe, mechanical cleaning. Used also as booster condenser for air cooled system. Larger models available upon request.

No.	H.P.	Size	Water Fittings	Refrigerant In	Refrigerant Out
12500	⅓	7½x12¾x4⅜	½	½	⅜
12501	½	7½x18¼x4⅜	½	½	⅜
12502	¾	9½x18¼x4-⅜	½	½	⅜
12503	1	9½x21¾x4⅜	½	⅝	⅜
12504	1½	11½x23½x4⅜	½	⅝	⅜
12505	2	12½x28¼x4½	½	¾	½
12506	3	14½x34½x4½	½	¾	½

SEE SEPARATE PRICE LIST

Watsco Pressure Controls



The "PS" series of replacement or add-on high or low pressure controls are safety devices mainly used for shutting down refrigeration or air conditioning units when the refrigerant charge is lost, or when the evaporator or condenser fan malfunctions or the condenser becomes plugged or dirty, causing high head or low back pressure. The controls have a valve core depressor and a female 1/4" S.A.E. flare connector. This enables them to be mounted on any 1/4" S.A.E. male fitting or access valve connection. To replace O.E.M. controls that are brazed or silver soldered to a line, one simply puts on an access valve fitting and then attaches the replacement control, providing the old control does not leak. Size, overall: 7/8" diam. x 2-1/2" long; lead wires, 18" long. All Pressure Controls have a rating of 5.8 amps. full load at 120 VAC, or 2.9 amps. at 240 VAC. For pilot duty at 120/240 VAC, rating is 125 VA; on 28 volts ac/dc, max. rating is 1.2 amps.

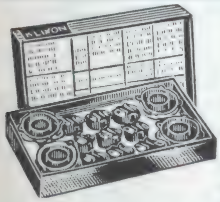
REFRIGERANT LOW PRESSURE CONTROLS

No.	Product No.	Open	Close
21620	PS-LP 10-25	10 psi	25 psi
21621	PS-LP 25-80	25 psi	80 psi
21622	PS-LP 40-80	40 psi	80 psi

REFRIGERANT HIGH PRESSURE CONTROLS

No.	Product No.	Open	Close
21630	PS-HP350-250	350 psi	250 psi
21631	PS-HP 400-300	400 psi	300 psi
21632	PS-HP 400-200	400 psi	200 psi
21633	PS-HP 450-250	450 psi	250 psi

Watsco Basic Thermostat Service Kit for Heating Equipment



Kit includes 6 fan switches and 3 high limit controls for use on warm heating systems. There are 5 round cup, 5 round flat, and 3 oval cup flanges in the kit. Flat oval flanges are not included in the kit but may be bought separately. Interchangeable flanges permit you to mount the thermostatic control in the position of the original control to make an exact replacement. Two each No. 38034 and 38035 and one each No. 38033, 38036, 38049, 38050, 38051 are included in kit. No. SL4. Cap. 10 Amp. FL 120V AC; 5 Amp. FL240 AC or 25 Amp. resistive load 120/240V.

38025 Complete Kit

Extra Flanges for Mfg. Watsco Thermostats

No.	Description	No.	Description
38088	Round Cup Flange	**38091**	Oval Flat Flange
38090	Round Flat Flange		

All of the following thermostats will fit above flanges.

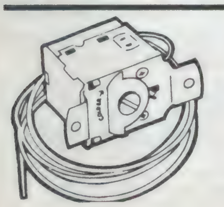
Fan Switches Close On Rise in Temperature

No.	Code	Close	Open	No.	Code	Close	Open
38030	F110-2	110	90	**38037**	F175-2	175	155
38031	F120-2	120	100	**38039**	F195-2	195	175
38033	F130-2	130	110	**38040**	F210-2	210	190
38034	F140-2	140	120	**38041**	F250-4	250	210
38035	F150-2	150	130	**38042**	F350-4	350	310
38036	F160-2	160	140				

High Limit Controls Open On Rise in Temperature

No.	Code	Open	Close	No.	Code	Open	Close
38044	L140-4	140	100	**38053**	L220-4	220	180
38045	L150-4	150	110	**38054**	L230-4	230	190
38046	L160-4	160	120	**38055**	L240-4	240	200
38047	L170-4	170	130	**38056**	L250-4	250	210
38049	L180-4	180	140	**38057**	L300-4	300	250
38050	L190-4	190	150	**38058**	L325-4	325	285
38051	L200-4	200	160	**38059**	L400-7	400	330
38052	L210-4	210	170	**38060**	L550-10	550	450
Manual Reset							
38062	MR150	150	90	**38065**	MR240	240	180
38064	MR210	210	150				

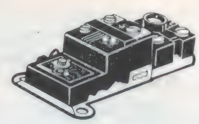
RANCO Direct Replacement Ice Bin Machine Control



Provides narrow 6° Differential for accurate control of ice bin level. 29 to 48°F range with 48" capillary. SPDT switch.

No.	RANCO No.
30905	A22-1129

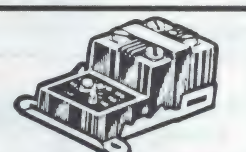
Combination Water Heater Thermostat and High Limit Control



Special all-inclusive unit consisting of a Type HLC control and R5025C or R5135C thermostat. Includes mounting bracket.

No.		Description
25634	—	HLC single-throw
25639	AW7025	HLC Double-throw

Chromalox Adjustable Thermostat



These bi-metal thermostats are designed as replacements for storage type electric water heaters. Adjustable range 120° to 170° with differential set to N.E.M.A. standards. Toggle mechanism built without friction springs gives positive snap action and maintains pressure against large silver contacts. The units are held against the tank by the clamp bracket bolted in position with the heater element flange bolts or units mounted directly on 2" centers. Rates at 6000W 240V AC and 3000W 120V AC. Size 1-3/8" x 3-3/4".

No.	Switch	Circuit Opens
25990	SPST	on Rise
25992	DPDT	1 on Rise; 2 on Fall

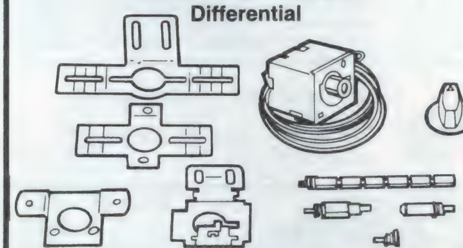


Chromalox High Limit Control

This high limit control opens the electrical circuit at 190°F + or -5° and operates independently and can not be blocked closed by the reset lever. Can be screw-mounted or clamp-mounted to water heater. DPST approved by Underwriters. For control 1-3/8"x3-3/4".

	For New Control 1-5/8"x3"
25854	1-5/8"x1-11/16"

RANCO Adaptable Replacement Commercial Refrigerator and Refrigerator/Freezer Control with Constant Differential



With pre-set differentials conforming to the most often used factory settings. Time saving features such as break-off dial shaft and flexible wiring make installation easy. All parts and instructions are included.

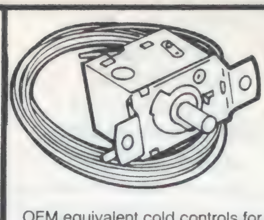
Refrigerator Controls

No.	Ranco No	Range °F	Dif °F	Cap "
25064	A30-180	-5 to 42	12	42
25061	A30-181	-5 to 42	12	84
25065	A30-182	-5 to 44	17	42
25063	A30-183	-5 to 44	17	84
25062	A30-184	-7 to 44	19	42
25060	A30-185	-15 to 36	16	42

Refrigerator/Freezer Controls

No.	Ranco No.	Range °F	Dif °F	Cap "
25070	A30-301	-24 to 20.5	8	84
25072	A30-304	-21 to 19	15	84
25073	A30-305	-21 to 19	15	108
30547	A30-307	-23 to 23	23	78
30582	A30-308	-30 to 12	11	84
30909	A30-310	-24 to 23	20	36
30910	A30-311	-22 to 24	14	42
30911	A30-312	-20 to 21	8	24
30912	A30-313	-20 to 21	8	42

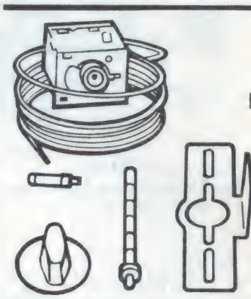
RANCO Direct Replacement Commercial Refrigeration With Constant Differential



OEM equivalent cold controls for vending machines, beverage coolers, freezers, and other commercial applications.

No.	Ranco No.	Range °F	Dif °F	Cap Length"
30900	A30-323	-11 to 10.5	10	48
30901	A30-2209	35 to 46	8	48
30902	A30-2210	30 to 42	8	48
30903	A30-2211	10.5 to 17.5	10	48

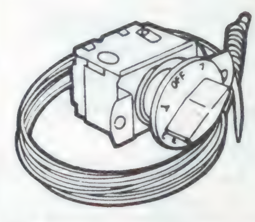
RANCO Adaptable Ice Harvest Control For Ice Machines



Adaptable replacement for ice machine applications. Low temperature range of -17 to 23°F, and 72" capillary. 80°F Differential. Parts and instructions included for easy installation. SPDT switch.

No.	RANCO No.
30904	A22-4506

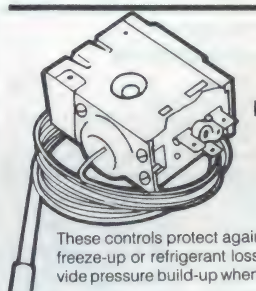
RANCO Direct Replacement Off-Cycle Defrosting Control for Commercial Refrigeration



This constant cut-in control provides reliable off-cycle defrosting for vending machines, beverage dispensers, and reach-in coolers.

No.	RANCO No.	Range °F	Cut In°	Cap "
30596	A12-700	11.5 to 27.5	37	84
30597	A12-701	15 to 31	41	84
20629	A12-1506	9 to 22	38	30x3/8 x1-3/8
25000	A12-1560	19 to 29	38	72

RANCO High-Low Pressure Cycling Controls



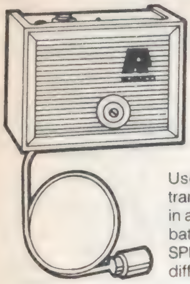
These controls protect against compressor failure due to freeze-up or refrigerant loss. It can also be used to provide pressure build-up when required or desired.

No.	Ranco No.	Cut-Out PSIG	Dif. (PSIG)	Setting Open	Setting Close	Highest Limit
30602	G20-4050	7 to 27	7 Fixed	7	14	37
30603	G20-4051	7 to 77	23 to 70	7	30	100
30605	G20-4412	7 to 70	17 Fixed	- 7	24	70
30604	G23-5052	150 to 450	50 to 125	375	290	450
30606	G23-5253	150 to 450	105 Fixed	425	320	450

No.	Switch Action	Term. 1&2	Term. 2&3
30602	SPDT	Open On Rise	Close On Rise
30603	SPDT	Open On Rise	Close On Rise
30605	SPST	—	Manual Reset- Locks Open On Drop
30604	SPDT	Open On Rise	Close On Rise
30606	SPST	Manual Reset- Locks Open On Rise	—

SEE SEPARATE PRICE LIST

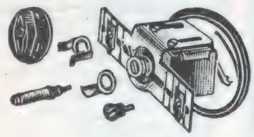
Controls



RANCO Ice Bank Control For Soft Drink Dispensers, Drink Vending Machines and Ice Builders

Uses a special water-filled bulb and transmission fluid to control ice thickness in applications using a refrigerated water bath with ice bank reserve capacity. SPECIFICATIONS: Fixed range, ⅛" ice differential. 72" capillary with bulb.

No.	
20776	018-100

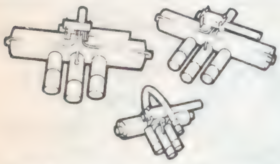


Ranco A30 Replacement Controls For Beverage And Water Coolers Type D

With Shaft, Knob, 2 Drivers And Screw Driver Shaft Cap Tube 84"

Our No.	Ranco
25066	A30-260
25067	A30-261
25068	A30-262
25069	A30-263

No.	Cut-Out		Cut-In	
	Cold	Normal	Normal	Warm
25066	-1°F	16°F	22°F	38°F
25067	30°F	41.5°F	47.5°F	68°F
25068	0°F	24°F	36°F	56°F
25069	3°F	17°F	39°F	53°F



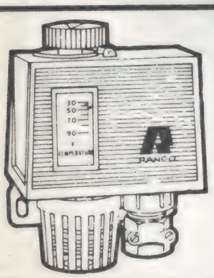
RANCO 4-Way Reversing Valves

These solenoid coil-operated reversing valves are slide type, 4-way, and operate under the full pressure of a heat pump system. These valves are used on unitary, split system, and window-type heat pump applications. (Solenoids sold separately — see Solenoid Coils.)

No.	Ranco No.	Capacity (Tons) R22	Capacity (Tons) R502	Tube Size Outlet	Tube Size Inlet
24994	V25-2500	3 to 8.5	2.75 to 6.8	⅞"	½"
24995	V25-2750	3 to 9.5	2.75 to 7.7	⅞"	¾"
24992	V26-100	.75 to 2.0	.75 to 1.6	½"	⅜"
24993	V30-2101	1 to 5.5	1 to 4.3	¾"	½"
20788	V30-2103	1 to 5.5	1 to 4.3	⅞"	½"

Solenoid Coils (For Reversing Valves)

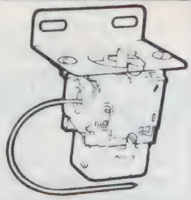
No.	Ranco No.	Voltage
24996	L27-2000	120
24997	L27-2001	208/240
24998	L27-2003	24



RANCO Vent/Cool and Heating Control In Dust, Splash and Spray Resistant Enclosure

Standard range of 30 to 95° F with a 2° F fixed Differential. SPDT switch for cooling or heating applications. Includes integral mounting bracket; conduit cable clamp, range adjustment knob, and air coil protector. Meets NEC Article 547 for controlling ventilation in agricultural buildings.

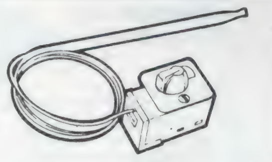
No.	Ranco No.
20782	052-6910



RANCO Room Air Conditioner Low Ambient Thermostat

Prevents the compressor from operating when outside temperatures are low. Prevents damage from possible liquid return in suction lines. 5° Differential, 50 to 65° F cut-out range. 24" Cap.

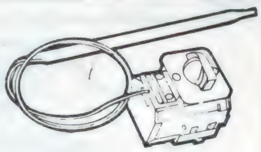
No.	Ranco No.
30538	A30-204



RANCO Single Stage Heating/ Cooling Control

Replaces many OEM controls on heat/cool units. Dial range 60 to 98° F, 36" capillary with ⅜"x 9" bulb. SPDT switch. 3° F Differential.

No.	Ranco No.
20689	C12-5010

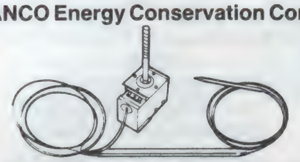


RANCO Two-Stage Heating/Cooling Control

Replaces many OEM controls for 2-stage cooling and heat/cool units. Dial range 71 to 101° F (cooling), 64 to 94° F (heating). 36" capillary with ⅜"x8½" bulb. 3° F Differential.

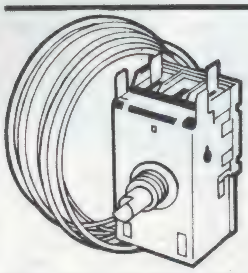
No.	Ranco No.
24990	C17-100

RANCO Energy Conservation Control



Prevents wide variation in room temperature by limiting heat/cool to a narrow range. Helps conserve energy and lower operating costs. Single or two-stage. 36" capillary with ⅜"x8¼" bulb. 3° F Differential.

No.	Ranco No.	Stage	Range °F
30787	C12-9024	1	67 to 83
30786	C17-9043	2	59 to 77
			68 to 86



RANCO K-SERIES General Replacement Cold Controls

These direct replacement controls fit most foreign refrigerators and freezers. They can also be used for recreational vehicles, home bars, and other units offered by U.S. firms.

Constant Differential — Refrigerator/Freezer

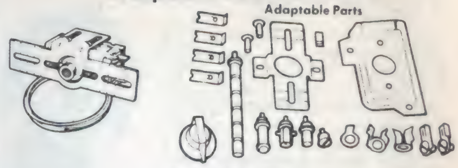
No.	Ranco No.	Normal Off	Normal On	Warm On	Cold Off	Cap "
30827	K251	-11	0	10.5	-29	78
30828	K250	7	23	35.5	-9.5	48

Constant Cut-In — Refrigerator

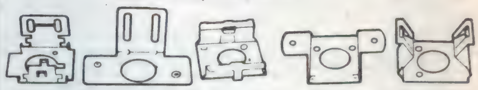
No.	Ranco No.	Normal Off	Normal On	Warm On	Cold Off	Cap "
30829	K252	2	12	-15	37	48

RANCO K-Series Adaptable Cold Controls

Adaptable Parts



Adaptable Brackets



Adaptable controls are offered in a wide selection of preset temperature differentials and ranges, permitting the serviceman to select a replacement control which will meet most OEM specifications. Universal adaptable shafts and mounting brackets minimize installation time and assure proper operation.

Constant Differential—Refrigerator

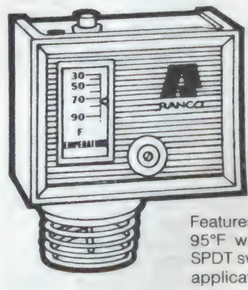
No.	Ranco No.	Normal On	Normal Off	Warm On	Cold Off	Cap "
30810	K501	9	21	42	—5	42
30811	K502	9	21	42	—5	78
30812	K503	3	21	45	—4	42
30813	K504	5	30	45	—7	42
30802	K505	29	36	46	18	24
30814	K506	6	17	47	—9	24
30815	K511	3	21	45	—4	78

Constant Differential—Refrigerator/Freezer

No.	Ranco No.	Normal On	Normal Off	Warm On	Cold Off	Cap "
30803	K601	—5	5	23	—23	80
30804	K603	—7	9	23	—23	80
30816	K605	—12	14	23	—23	80
30817	K607	—10	0	23	—23	24
30818	K608	—14	0	23	—23	42
30819	K610	—10	0	23	—23	42

Constant Cut-In—Refrigerator

No.	Ranco No.	Normal On	Normal Off	Warm On	Cold Off	Cap "
30805	K401	—10	—2	—22	39	51
30820	K403	—10	—2	—22	39	24
30821	K404	—3	10	—15	39	48
30822	K405	—3	6	—13	39	60
30823	K406	4	12	—6	39	31
30824	K407	1	12	—10	39	80
30825	K408	11	18	3	39	80
30826	K410	15	23	8	39	80

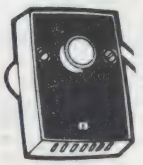


RANCO Vent/Cooling and Heating Control in NEMA Enclosure

Features a standard range of 30 to 95°F with a 2°F fixed differential SPDT switch for cooling and heating applications.

No.	Ranco No.
20781	016-165

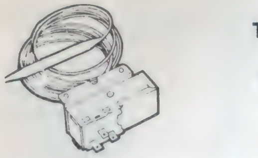
Ranco Reuseable Universal Replacement Refrigerator Control



A control for refrigeration range that will let you put an old or new refrigerator back in service when you do not have an exact replacement with you. Solves any control problem on refrigerators, reach-ins, beer, or beverage coolers, or walk-ins. Has 2 suction cups to attach inside the unit, 12" leads with quick connect terminals. Air sensing control with narrow differential and SPST snap action switch with contacts that make on rise. Capacity 20 FL amp, 240V AC. Normal range 33° F. cut out -39° F. cut in, with cold cut out 28° F. and warm cut in 45° F. Adjustment knob has off position. USI-C 1000.

No.
30780

SEE SEPARATE PRICE LIST

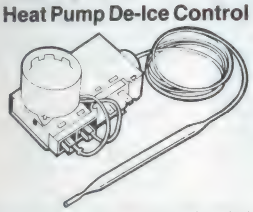


RANCO Temperature Activated Heat Pump De-Ice Control

Provides automatic, temperature-activated de-icing of heat pump outdoor coils. 36" capillary with 3/16" x 3⅜" bulb. SPDT switch. 120/240V operation.

No.	Ranco No.
30539	D52-101

RANCO Timer-Activated Heat Pump De-Ice Control



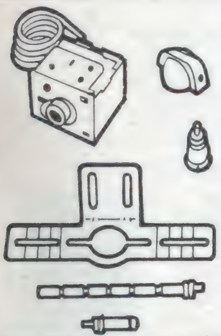
Provides field-adjustable timer control for de-icing of heat pump outdoor coils. Defrost cycle starts every 30, 45 or 90 minutes. Interlock prevents more than one defrost cycle per time period and temperature must be 25° F or lower to start. 76" capillary with ⅜"x4" bulb. SPDT switch.

No.	Ranco No.	Voltage
30788	E15-1501	120
30789	E15-2501	240

RANCO Vent/Cool Control In Nema I Enclosure

Features a standard range of 30 to 95° F with a 2° F fixed differential. SPST Close-on-temperature-rise switch for ventilation/cooling applications.

No.	Ranco No.
20780	010-301



RANCO Adaptable Replacement Cycling Controls for Room Air Conditioners

Adaptable control to replace OEM controls which govern the on-off compressor function. Includes break-off shaft, dial knob, mounting bracket and installation instructions.

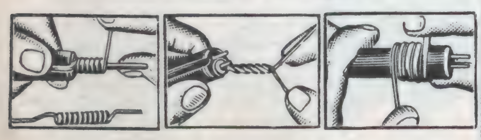
COOLING — SPST SWITCH

No.	Ranco No.	Range °F	Cap "	Bulb Type
25080	A30-450	58 to 92	18	Aircoil
25081	A30-451	58 to 91	48	Straight
25082	A30-452	58 to 91	38	Cr. Amb.

COOLING/HEATING—SPDT SWITCH

No.	Ranco No.	Range °F	Cap "	Bulb Type
30598	A22-2451	39 to 83	27	Straight
30599	A22-2453	59 to 88	39	Cr. Amb.

Ranco Capillary Forming Tool

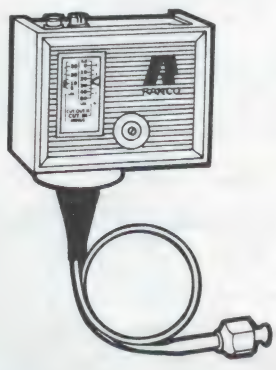


Makes 3/16" twisted, coils, ⅜" OD coils and 1" OD coils to match coils on controls being replaced so the new control will have the same operating characteristics as the old control being replaced. 6⅝" long overall.
25083

Ranco Single and Dual Function Pressure Controls For Commercial Applications

Ranco "O" type controls feature lazer-welded stainless steel bellows for long life. Its rugged construction includes a heavy steel frame, precision ground springs, and tempered steel mechanisms. Industry standard mounting and compact design assure complete interchange ability. Mounting bracket included.

Single Function



Single Function SPST — Opens Low

No.	Ranco No.	Range (PSIG)	Dif. (PSIG)	Style
20715	010-1401	12 to 50	5 to 35	Male Flare
20716	010-1402	12 to 50	5 to 35	36" Cap
20601	010-1831	10 to 100	10 to 40	Male Flare
20675	010-1483	10 to 100	10 to 40	36" Cap
24949	010-1894	100 to 400	35 to 150	Male Flare
25009	010-2054	100 to 400	35 to 150	36" Cap

Single Function SPST — Opens High

No.	Ranco No.	Range (PSIG)	Dif. (PSIG)	Style
20610	011-1799	10 to 100	10 to 40	Male Flare
20770	011-3099	10 to 100	10 to 40	36" Cap
20604	011-1713	150 to 450	35 to 50	Male Flare
20672	011-1711	150 to 450	35 to 50	36" Cap

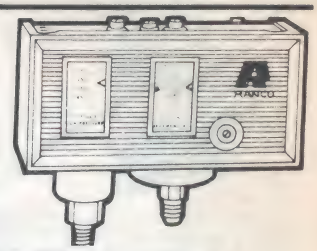
Single Function SPDT — Opens High Or Low

No.	Ranco No.	Range (PSIG)	Dif. (PSIG)	Style
24984	016-120	12 to 50	5 to 35	Male Flare
20696	016-107	10 to 100	10 to 40	Male Flare
30520	016-527	10 to 100	10 to 40	36" Cap
25095	016-166	50 to 150	10 to 40	36" Cap
20698	016-108	100 to 400	17 Fixed	48" Cap
25096	016-200	150 to 450	Man. Reset	48" Cap

Single Function DPST — Opens Low

No.	Ranco No.	Range (PSIG)	Dif. (PSIG)	Style
25001	020-7702	12 to 50	5 to 35	36" Cap
25002	020-7704	10 to 100	10 to 40	36" Cap
30500	020-7706	100 to 400	35 to 150	36" Cap

Dual Function



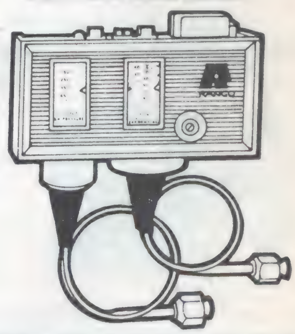
Dual Function SPST—Automatic Reset

No.	Ranco No.	Lo/Hi Range (PSIG)	Lo/Hi Dif (PSIG)	Style
20723	012-1505	12 to 50 100 to 250	5 to 35 50 Fix	Male Flare
20602	012-1506	12 to 50 100 to 250	5 to 35 50 Fix	36" Cap
30503	012-1554	12 to 50 100 to 250	5 to 35 50 Fix	48" Cap
30544	012-1502	12 to 50 150 to 450	5 to 35 60 Fix	36" Cap
20603	012-1550	10 to 100 150 to 450	10 to 40 60 Fix	Male Flare
20676	012-1549	10 to 100 150 to 450	10 to 40 60 Fix	36" Cap

Dual Function SPST—Manual Reset

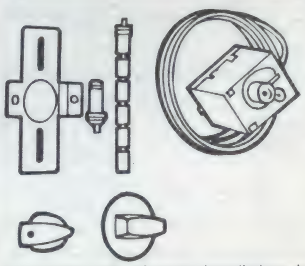
No.	Ranco No.	Lo/Hi Range (PSIG)	Lo/Hi Dif (PSIG)	Style
20637	012-1594	10 to 100 150 to 450	10 to 40 60 Fix	36" Cap

DUAL FUNCTION CONVERTIBLE RESET



Allows maximum flexibility by selecting either manual or automatic reset high pressure operation. Low pressure operation is automatic.

No.	Ranco No.	Lo/Hi Range (PSIG)	Lo/Hi Dif (PSIG)	Style
25007	022-7702	12 to 50 100 to 250	5 to 35 50 Fix	36" Cap
20771	012-4833	12 to 50 150 to 450	5 to 35 60 Fix	36" Cap
20772	012-4834	10 to 100 150 to 450	10 to 40 60 Fix	48" Cap
25008	022-7706	10 to 100 150 to 450	10 to 40 60 Fix	36" Cap



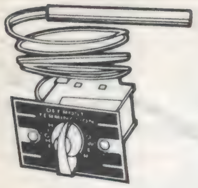
RANCO Adaptable Replacement Commercial Control With Constant Differential

Adaptable control for easy installation when direct replacement is not available. Used on vending machines, beverage coolers, freezers, and other commercial applications.

No.	Ranco No.	Range °F	Dif °F	Switch Action	Cap
30906	A22-1112	25-44	5	SPST	72
30907	A22-391	10-47	8	SPDT	66
30908	A22-392	14-66	24	SPDT	48

SEE SEPARATE PRICE LIST

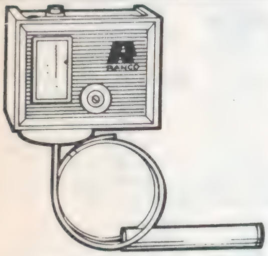
Controls



RANCO Fan Delay-Defrost Termination Control

Terminates defrost cycle and delays evaporator fan operation during the start-up of the refrigeration cycle. This helps prevent condensation being discharged into the refrigerated space. SPDT switch action. 35° range with 20° to 55°. Differential. Cut-out at 75° to 40°, cut-in at 20°. 60" capillary with 3/8"x4" cross ambient bulb.

No.	Ranco No.
30527	F25-107

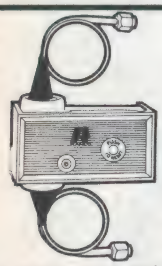


RANCO Milk Cooler Control

This control typically senses the bottom tank temperature to control a compressor. It is also suited for chillers and any close differential bulb sensing application within its adjustment range.

SPECIFICATIONS: 22.5 to 47.5° range, 1.5° Fixed Differential, 36" capillary with cross ambient bulb.

No.	Ranco No.
20774	016-601



RANCO Lube Oil Protection Controls

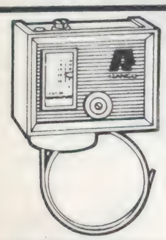
Guards pressure lubricated refrigeration compressors against major damage due to loss of oil pressure. If oil pressure is lost, the built-in S30 TimeDelay Switch starts timing. If oil pressure does not recover within the set period the control circuit is opened and the compressor is stopped. 120 or 240 volt operation.

Adjustable Range—36" Capillary

No.	Ranco No.	Range (PSID)	Dif (PSI)	Time Delay
30530	P30-3801	5 to 60	7 max	120
30913	P30-3701	5 to 60	7 max	90
30914	P30-3601	5 to 60	7 max	60

Non-Adjustable Range — 36" Capillary (Copeland 085-0062-00)

No.	Ranco No.
30915	P30-5826

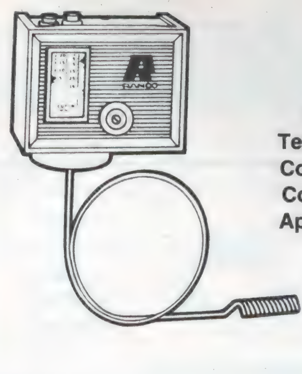


RANCO Soft Ice Cream Machine Control

Provides an adjustment range to cover soft ice cream, slush ice and yogurt machine applications. Designed to be inserted into a tube brazed around the refrigerated machine barrel.

SPECIFICATIONS: —15 to 40° range, 1.5° Fixed Differential, 72" capillary.

No.	Ranco No.
20775	016-588



RANCO Temperature Controls For Commercial Applications

Ranco "0" type controls feature lazer-welded steel bellows for long life. Its rugged construction includes a heavy plated steel frame, precision ground springs, and tempered steel mechanisms. Industry standard mounting and compact design assure complete interchangeability. Mounting bracket included.

Extra-Low Range—SPST (Ice Cream)

No.	Ranco No.	Range °F	Dif °F	Style
20712	010-1419	—35 to 15	3 to 20	72" Cap
20607	010-1433	—35 to 15	3 to 20	72" Remote Bulb

Low Range—SPST (Freezer)

No.	Ranco No.	Range °F	Dif °F	Style
20708	010-1408	—15 to 40	3 to 20	72" Remote Bulb

Medium Range—SPST (Refrigeration)

No.	Ranco No.	Range °F	Dif. °F	Style
20711	010-1416	0 to 55	3 to 20	72" Cap
20714	010-1418	0 to 55	3 to 20	Air Coil
20709	010-1409	0 to 55	3 to 20	72" Remote Bulb
20687	010-1473	0 to 55	7 to 55	72" Remote Bulb
20608	010-1490	0 to 55	2 Fix	72" Remote Bulb

Medium Range—SPDT (Refrigeration)

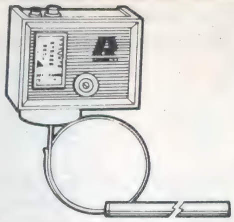
No.	Ranco No.	Range °F	Dif °F	Style
30516	016-111	0 to 55	3 to 20	72" Cap
30515	016-104	0 to 55	3 to 20	72" Remote Bulb

High Range—SPST (Cooling & Condenser Fans)

No.	Ranco No.	Range °F	Dif °F	Style
20684	010-1802	25 to 75	3 to 20	Air Coil
20710	010-1410	25 to 75	3 to 20	72" Remote Bulb
20685	010-1491	25 to 75	2 Fix	72" Remote Bulb

Replaces Bohn #57434 Kramer Trenton #506-742

No.	Ranco No.	Range °F	Dif °F	Style
20773	020-7041	0 to 108	6 to 20	96" Cap with CR AMB Bulb

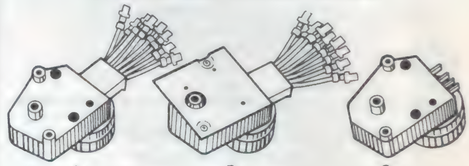


RANCO Wide Range Control With 140° Range

The Ranco Wide Range Control offers the ultimate in expanded wide range temperature control. It features a gas-filled, non-position sensitive cross ambient bulb. It is virtually unaffected by ambient temperature and senses from the bulb only. 18 revolutions of the range screw are used to cover the complete setting range. This provides 20X the setting sensitivity as compared to typical wide range controls which use less than a single revolution. Suitable for return air or space temperature sensing, defrost termination, fan delay, and evaporator coil sensing. Can also be used for heating and industrial equipment applications. SPDT switch.

No.	Ranco No.	Range °F	Dif °F	Style
20777	060-100	—35 to 95	3.5 to 50	96" Cap
20778	060-101	—35 to 95	3.5 to 50	Air Coil
20779	060-200	95 to 240	6 to 50	96" Cap

HACO Replacement Defrost Timers



A B C

These defrost timers will replace over 90% of the timers used on automatic defrost refrigerators and freezers. Each replacement timer includes parts to mount and replace the original timer without drilling or modifying. They have synchronous motors with a ground connection and the electrical harness and splice insulators to connect without soldering.
Cross reference information is printed on the box.

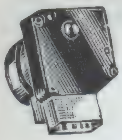
Part No.	Paragon No.	Ranco T32-	Singer CC-	Gem DT-	Robert-shaw DT 3000-
38540	J7690	212	802	106	220
38540	E7690	213	—	107	—
38541	D7700	210	806	101	620
38541	A7690	215	—	108	—
38541	A7720	—	—	105	—
38542	B7690	211	804	—	820
38542	D7690	—	—	—	—
38543	F7000	228	804	—	820
38543	B7720	230	—	—	—
38544	D7690	—	803	102	830
38545	B7890	—	806	—	626
38545	F7690	—	—	—	—
38546	L7700	214	807	—	—
38546	G7690	—	—	—	—
38547	A7700	234	803	—	830
38548	D7720	232	801	104	230
38548	G7700	—	—	—	—
38549	A7710	216	802	103	225
38549	K7700	229	—	—	—
38549	A7890	—	—	—	—
38550	E7700	229	808	—	602
38551	J7700	231	808	—	217

Defrosting

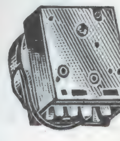
Part No.	Mallory No.	Fig.	Each Hours	For Minutes
38540	34885	A	8	21
38541	34886	C	6	21
38542	34887	C	8	20
38543	34888	B	8	20
38544	34889	A	8	30
38545	34890	A	6	26
38546	34891	C	6	25
38547	34892	C	8	30
38548	34893	C	12	30
38549	34894	C	12	25
38550	34895	C	6	21
38551	34896	A	12	17
38552	34897	Bracket Kit For G.E.		

SEE SEPARATE PRICE LIST

Paragon Exact Replacement For Domestic Defrost Time Controls

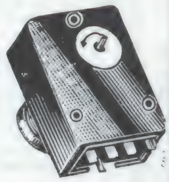


A



B

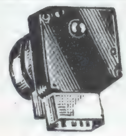
120V 60C 10 Amp non-inductive load.



C

No.	Paragon	Fig.
26881	A-769-0	A
26882	B-769-0	A
26883	D-769-0	A
26884	E-769-0	A
26885	F-769-0	A
26886	G-769-0	A
26887	J-769-0	A
26888	A-770-0	B
26889	D-770-0	B
26890	E-770-0	B
26891	F-770-0	B
26892	G-770-0	B
26893	J-770-0	B
26894	K-770-0	B
26895	L-770-0	B
26896	A-771-0	C
26897	A-789-0	
26898	B-789-0	
26899	D-789-0	

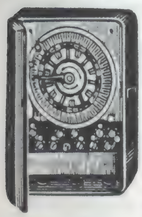
Paragon Exact Replacement Defrost Timer



They will fit exact replacement. 120V 60C.

No.	Paragon Model	For Use	OEM Paragon No.	Replaces Paragon Model
26691	E-1111	Admiral 55467-1	JE-539	A-769
26692	A-1111	GE WR9X330	NE-539	F-769
26693	D-1111	Fridgidaire 626234	AK-539	B-769
26694	B-1111	Westinghouse 900072	NA-539	G-769

7 Day Calendar Dial Time Switch

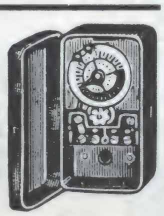


A very flexible time switch that will turn On or Off as close as 3 hours apart adjustable through each 24 hour day for 7 days. Saturday, Sunday, or Holidays may be set for operation at different times or omitted. Dial, 6" in diam. is clearly marked in half hour periods and day and night. Will operate heating, air conditioning, lighting, pumping or any electrical operation turned On and Off any day or every day. Has 7 Pair On and Off trippers.

40 Amp. Non-Inductive Load Per Pole

No.	Paragon	Volts	Switch
26848	7008-0	120V60C	DPDT
26849	7008-20	240V60C	DPDT
26879	Extra Pair On and Off Trippers		

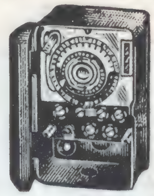
7 Day Air Conditioning Time Switch



Turns the air conditioning unit on or off at a regular hour each day adjustable on 24 hour dial. Will skip any day or week end by setting the cutout wheel. 7-3/4"x 4-1/8"x3" deep. Capacity 40 Amp. tungsten per pole.

No.	Paragon	DPST Tungsten	Volts
26839	4003-0S	40 Amp	120V60C
26840	4004-20S	40 Amp	208/240/277/V60C
26879	Extra Pair On and Off Trippers		

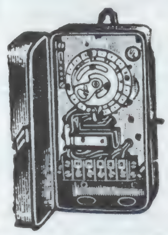
Paragon Time-Pressure And Temperature Defrosting Timers With Fail Safe Features



The defrost cycle starts at the time setting and ends when the pressure or temperature conditions are satisfied. This requires an additional thermostat or pressure switch to operate the timer and end the defrost cycle. Should this control or time switch fail the fail-safe pins will end the defrost cycle at settings from 4 to 110 minutes. Will not start the defrost cycle if temperature and/or pressure are too high at the start of the cycle. The temperature or pressure control will take over if clock motor fails. Has 4W. heavy duty, self-starting timer motor. Will defrost up to 6 times per 24 hours, with 4 hours between cycles. S.P.D.T. switch 40 Amp., 2 HP capacity, in steel case with atttractive grey finish. Same models used for electric heater, defrosting or compressor shut-down defrosting. In electric heater defrosting the compressor and blower fan are operating. When defrosting compressor and blower fan are off and electric heater is on to defrost coils. In compressor shutdown defrosting normally the compressor and blower fan are operating. When defrosting both compressor and fan are off. Used only where surrounding temperature is above 32°F to defrost the coils. Contacts A and B rated at 40 Amp. 2 HP 120-240V AC and Contacts C rated 10 Amp. 1/4 HP 120-240V AC.

No.	Paragon Model	Replaces	Contact A	Operating B	Position C
120 Volt 60C AC					
26841	8141-0	8101, 5005	Closed	Open	Closed
26843	8143-0	8103-07, 5007	Open	Closed	Open
26845	8145-0	8105, 5105	Closed	Open	None
240 Volt 60C AC					
26842	8141-20	8102, 5006	Closed	Open	Closed
26844	8143-20	8104-08, 5008	Open	Closed	Open
26846	8145-20	8106, 5106	Closed	Open	None
26847	Tripper Pin				

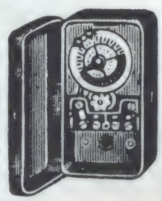
Paragon Water, Spray, And Hot Gas Fan Delay Defrosting Timers



These timers start and control the defrosting with water, spray, hot gas, or electric heat where fan delay is necessary on commercial refrigeration systems. The fan delay at the end of defrost cycle adjustable from 3 to 15 minutes. Has 2 single pole, double throw circuits. Will defrost from 1 to 8 times in 24 hours. 4 watt self starting heavy duty motor. 6"x10-1/4"x4-1/4" deep. Capacity 50W 120 volt solenoid valves. 1/4 HP 120V fan motor or 125 VA. pilot duty.

No.	Paragon	Volts
26827	632-0	120V
26828	632-20	240V
26847	Tripper Pin	

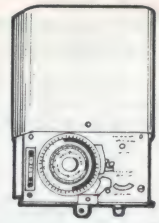
Paragon Time Switch With 3 Watt Heavy Duty Motor



Has up to six defrosting cycles in every 24 hours of not less than 1-1/2 hours each. Used to shut down the compressor for defrosting period and restart it at a set time. With standard 3 watt synchronous motor with visible dial and 2 adj. trippers. In steel case 7-3/4"x4-1/8"x3" deep.

No.	Paragon	Switch
120 Volt 40 Amp 4000 Watts		
26863	4001-0	SPST
26864	4003-0	DPST
208/240/277 Volt 40 Amp. 8000 Watts		
26867	4004-20	DPST
26879	Extra Pair On and Off Trippers	

Paragon Automatic Timer And Pressure Defrost Timer With Fail Safe Features

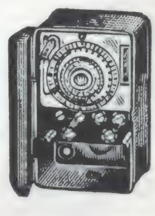


Defrost timer starts the defrost cycle by shutting down the compressor at the predetermined time settings. The compressor will remain stopped until the back pressure builds up corresponding to a completely defrosted evaporator. The cut in pressure may be adjusted from 30 to 55 lbs. Adjustable fail safe pins may be set to bring the system back to the refrigeration cycle if the increase in pressure does not start the refrigeration cycle within the safe time. On clock failure the system will also end the defrost cycle and start refrigeration. If the pressure is too high at the start of defrost cycle it will automatically go back to refrigeration. These built in fail safe features keep the system operating at the highest efficiency. Contacts rated 40 Amp. 2 HP 120/240V AC. Has heavy duty 4 W synchronous motor. May be set to cycle up to 6 times per 24 hours. With a minimum of 4 hours between defrost cycles. Used for electric heat, hot gas, or compressor shut down defrosting systems. For R-12, R-22, R-502 at pressure from 36 to 110 lbs.

Contacts A and B rated at 40 Amp. 2 HP 120/240V AC and contacts C rated at 10 Amp. 1/4 HP 120/240V AC.

No.	Paragon	Volt	Contacts
26829	8245-0	120V	A and B
26830	8247-0	120V	A, B and C
26831	8245-20	240V	A and B
26832	8247-20	240V	A, B and C
26847	Tripper Pin		

Paragon D-Frost-O-Matic Commercial Defrosting Control



These controls will give you precision defrosting cycles from 4 to 110 minutes defrosting periods. Simplified and accurate settings can be made up to 6 defrost cycles per day. Has heavy duty 4 watt synchronous motor. Ideal for electric heat and hot gas defrost systems. Contacts A and B rated at 40 AMP. 2 HP 120/ 240V AC and contacts C rated 10 Amp. 1/4 HP 120/240V AC.

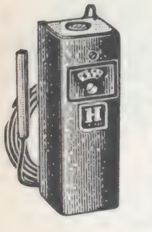
No.	Paragon	Volts	Contacts	Switch
26874	8045-0	115V	A and B	SPDT
26875	8045-20	208/240/277	A and B	SPDT
26876	8043-20	208/240/277	A and B	DPST
26877	8047-20	208/240/277	A, B and C	DPST
26847	Tripper Pin			

DON'T WORRY IF YOU CAN'T FIND EQUIPMENT IN THIS CATALOG!

This book is devoted exclusively to Alter's extensive inventory of parts and pieces. Harry Alter now publishes regular seasonal supplements featuring our complete lines of unitary air conditioners, furnaces, boilers and related products. Call 312/376-3505 or the nearest Alter location for the most current listing of our equipment lines.

SEE SEPARATE PRICE LIST

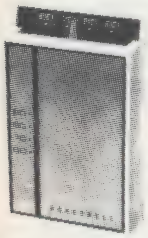
Honeywell Refrigeration Thermostat



Has a liquid filled bulb element that responds rapidly to temperature changes. SPDT snap action enclosed micro switch with 8 Amp. 120V or 5.1 Amp 240V AC capacity. Range 15° to 75°F with 5° differential and 5 ft. tube with 3/8" bulb 3" long. Used mainly to control temperature in display cases and cabinets. For any control within the temperature range for either temperature rise or temperature fall. Model L6021A-1005.

No.
17909

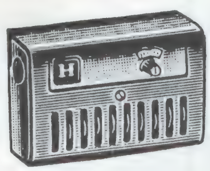
Honeywell No. T651A Line Voltage Thermostat



Assures even room temperature by control of circulator motors, fans, fan coils, motor starters, valves and contactors in heating and cooling systems. Mounts on vertical outlet box. Silver bronze metal case, locking lever and cover. SPDT switch acts on temp. rise—breaks heating and makes cooling. Full load rating: 8 amps. on 120VAC, 4 amps, on 208/240 VAC. Resistive amps, 7.2. U.L. listed. Super Trade Line Model, replacing M.H. No. T451A1066; T451B1073; T651A1152; T451A1136; and old models J44-A, T45-A, T-44B, T-45B. Approx. size: 5-7/16"H. x 3-1/4"W. x 1-3/16"D. Use of 70437 subbase provides AUTO-OFF switching in heat only or cool only systems; 70439 provides manual switching (HEAT-OFF-COOL) in heating/cooling systems. Order sub-bases separately.

No.	No.	Range	Fixed Diff
73761	T651A1269	56° to 94° F	2°F
70437	Q473B1015 Subbase Auto and Off Switch		
70439	Q473A 1040 Subbase Heat-Off-Cool Switch		

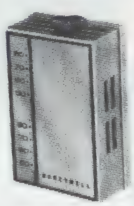
Honeywell Line Voltage Air Switch T631C



A rugged control for heating and cooling with SPDT micro switch in attractive gray enameled case. Full load 7x4 Amp. locked rotor 44.4 Amp. and resistance load 1500 watt at 115V. A long coiled element gives fast and accurate control. 4-1/4" high 6" wide and 2-1/2" deep.

No.	T631C-	Range	Fixed Diff.
73544	1004	-10° to 60°F	3°
17900	1103	20° to 90°F.	3°
73545	1053	35° to 100°F.	2°
73546	1020	70° to 140°F.	2°

Honeywell Heavy Duty Heating and Cooling Line Thermostat T6051A



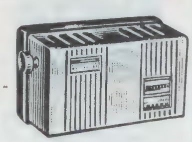
The T6051A heating and cooling thermostat for line voltage is a general replacement for many older models. Has single pole double throw switching with 1° differential. Scale is 45° to 85°F. Thermostat may be mounted vertically or horizontally and is 5"x3-1/8" and 1-5/8" deep. Rated at 120V50/60C for heating full load 16 Amp. and locked rotor 96 Amp.; for cooling full load 8 Amp. and locked rotor 48 Amp. Ratings at 240V 50/60C are 1/2 the 120V ratings. Knob used to adjust scale setting may be removed to lock the control. Replaces old models T42A, TA42A, TA34A, T42B, TA42B, TA62A, T64A and T65A.

No.		
73735	T6051A1016	Thermostat

Subbase Q651A used with above has switching of Heat-Off-Cool and Heat-Off-Fan, and Auto-Off-On.

73736	Q651A1009	Sub Base

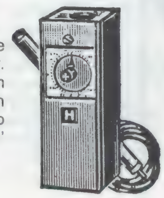
Honeywell Low Voltage Modulating Thermostats T921



Low voltage control with potentiometers for modulating control of motorized dampers or motorized valves. Range 56 to 84°F. with modulating range 2-1/2°F. Has vapor filled operating bellows. In silver bronze finished case 2-1/2" high 5" wide and 2-7/8" deep. Has adjusting knob on the side.

No.		Range
70444	T921A1191	56 to 84°F.

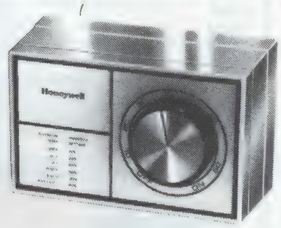
Honeywell Low Voltage Modulating Temperature Control T991A



This low voltage modulating temperature control has a 135 ohm potentiometer. Designed to control temperatures in ducts, tanks, or pipes and used with motorized control or motorized valve to regulate temperature. Bulb ½" OD 4½" long with 5 ft. tube.

No.	T991A	Range
73525	1426	0 to 100°F
73526	1244	55° to 175°F

Honeywell Model H808B Low Voltage Humidistat



Provides automatic control of humidifiers in central heating systems; can be wall or duct mounted. Snap-acting, dustproof SPST switch. Electrical rating: 50 VA at 24 VAC. Set point is indexed to outside temperatures so that user, following guide printed on face of the control, can set for proper humidification levels. Switch differential is 5% R.H. (non-adjustable). ON and OFF positions on control knob. Humidity element is a moisture-sensitive nylon ribbon. Maximum ambient temperature, 125°F. Case is cream-colored, impact-resistant polystyrene, with bronze finished faceplate. Mounts with self-adhesive template and foam gasket on return duct. For wall, two mounting screws are supplied. Wiring connections include 2 male quick-connects on humidistat, lead wires with female quick-connects, and 2 wire nuts. Overall size: 5" W. x 3-3/16" H. x 4-3/8" D.

No.	
73462	H808B1012

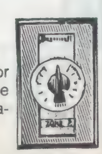
Honeywell Duct Mounted Humidifier Control H49A



This humidifier control mounts in the return air duct and is wired to the humidifier and furnace blower circuit to control the humidity throughout the home. Has sensitive nylon sensing element, front adjustment knob and adjustable range from 15 to 50% R.H. Enclosed switch rated 4.4 Amp 120V AC full load. Insertion length 7½". Max. temp. 125°F.

No.	
73531	H49A1019

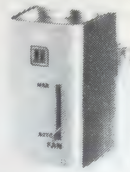
Honeywell Remote Manual Potentiometers S963A



These manual potentiometers fit a handy box for remote mounting. They may be set manually to give you automatic control of the Modutrol motor operating the damper.

No.		Potentiometer
73527	S963A1004	135 Ohm

Honeywell Fan and Limit Controls With Snap Action Switch L4068-L4069



M-H fan and limit controls have a flat bimetal element operating a snap action switch. Used as a replacement in all types of warm air heaters and an exact replacement on the new compact units. 3¾"H 2-7/16"W and 2" deep. Capacity 8 AMP 120V or 4 AMP 240V. Fan control range adj. 110° to 150°F. with adj. diff. SPST switch closes on rise in temperature. No. 70422-23 M-H Tradeline L4068 replaces Old Model LA412A; LA445B; L4028 and L4030 one side. No. 70424 M-H Tradeline L4069 replaces LA419, L4029.

No.	Model	Element
70422	L4068E1047	3"
70423	L4068E1054	7"

The limit control range is adj. from 170° to 250°F. with 25 fixed diff. SPST switch breaks on rise in temperature.

No.	Model	Element
70424	L4069A1078	3"

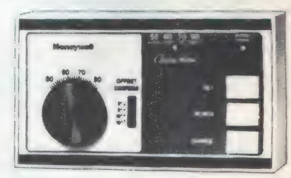
Honeywell Fast Acting Aquastat Controller With Remote Bulb L6008C



Fast acting aquastat control with a ⅜" diam. 2⅞" long bulb with a 5½ ft. cap. tube for direct immersion or in an immersion well. Has SPDT snap action switch and 2° midscale differential.

No.	Model L6008C	Range
73627	1107	40 to 180°F.
73628	1016	0 to 70°F.

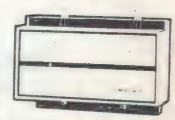
Honeywell Fuel Saver Thermostat T 8100



3 key buttons will allow programming of thermostat, giving saving of 9 to 30% on heating, 7 to 25% on cooling. Program set key to the number of hours energy saving mode should be in effect. Programming begins immediately. Change key switches thermostat from comfort to energy saving mode or visa versa. Review indicates number of hours of energy savings. LED indicator shows energy saving mode in "On". Qualifies as Federal tax credit of 15% of total installed cost.

No.	Description
70683	Honeywell Thermostat Model T8100 A 1005
70681	Q6000 A 1005 Subbase for Heating & Cooling Fan Switch Auto On. Cool-Off Heat.
70682	Q6000 B 1003 Subbase for Heating Only

Honeywell Heating and Cooling Thermostat T874



Room thermostat complete with subbase to give you an Automatic Off system switch and an Automatic On fan switch. Has 2 bimetallic elements operating mercury switches. The 2 stage heating switch closes 2 switches in sequence as temperature drops. The one stage cooling switch closes on temperature rise. With subbase it is 5-5/8" high, 3-1/2" wide, 2-1/8" deep. Heating and cooling ranges: 42°F. to 88°F. Optional temperature scale ranges available.

No.		Stages Heat	Stages Cool
70687	T874C1018	2	1
70688	T874A1036	1	1
70689	T874D1165	2	2
70694	T874E1016		2

All Above Thermostats Require A Subbase

No.		System Switch Marked	Fan Switch Marked
70690	Q674C1058	Auto-Off	On-Auto
70691	Q674A1019	Heat-Auto-Cool	On-Auto
70692	Q674B1034	Heat-Off-Cool	On-Auto

SEE SEPARATE PRICE LIST



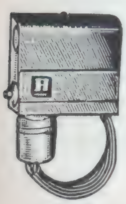
Honeywell Heavy Duty Mercury Switch Thermostat T42

Thermostat with the dependable mercury switch for line voltage operated by a bellows element. Silver finish. Range 40^0 to 80^0F. Fixed differential 2^0-3^0. Approx. 1/2 HP motor. M-H T42A 1052. In metal case with removable adjustment knob.
70310

Heavy Duty Cooling Mercury Switch Thermostat

Similar to above with the same range but reverse acting to start the cooling system when temperature rises. Has 2 Amp. capacity and is used to operate solenoids and relays.
70354 T42B1035

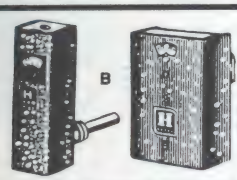
Similar to above but for one stage heating and two stage cooling. Range 60^0 to 100^0F. First cooling 2^0 diff., second cooling 5-1/2^0 diff., 6^0F. diff. between cooling and heating and 5-1/2^0 diff. for heating.
73665 T42P1018 One Stage Heating and Two Stage Cooling



Honeywell Safety Low Limit L480B Temperature Cutout Control

This control is used to prevent air conditioning coils or enclosures from excessively low temperatures. Used to protect steam coils from incoming outside air by closing damper to prevent freezing. Has SPDT snap switch that can be used to open control circuit and close alarm circuit. Range 30° to 60°F. with 5°F fixed differential, and has 20 ft. ⅛" tube element. Full load 10.2 A 120V. and 6.5 A 240V.

No.	
70458	Model L480B1239



Honeywell Fast Acting Aquastats Tradeline Replacements

A Immersion Aquastat L6006A

Have liquid filled elements that react very quickly to small temperature changes of the boiler water. Best for the small modern boilers. Range 100° to 240°F. Adj. differential 5° to 30°F. Rated 8.0 Amp 120V. Has SPDT switch for low or high limit control. Supplied without well but with adapter to fit most wells. No. 70411 Tradeline L6006A 1095 replaces Old Model L116-1, -4, -5, -A, -B; L144-A, -B; L165 -A, -B,; L170-A, -B; L244A; L265A; L270; L416-1, -3, -4, -5, -A, -B; L444-A, -B; L844-A, -B; L4006-A, -B; and L4006-A, -B, -C, -D.

No.	Model	Description
70411	L6006A1145	SPDT Switch
70413	121371A	½" IPT Copper Well

B Triple Function Immersion Aquastat L6062A

Similar to above with 2 independent temperature controlled sealed switches, one SPDT for high limit opening on rise and one SPDT for low limit and circulator control. Fast acting liquid filled element. Range 100° to 240°F. Rated 8 AMP. 120 V. AC. SPST switch has 5° diff. SPDT switch has 5° to 45° adj. diff. Supplied without well. No. 70412 M-H Tradeline L6081-1010 replaces Old Model L4010-A, and -B.

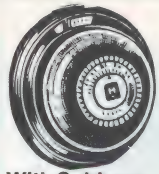
No.		
70412	L6081-1010	Without Well
70414	121371B	¾" IPT Copper Well

Surface Aquastat L6006 Single Pole Double Throw

For either vertical or horizontal surface mounting using an 8½" clamp. Range is 100° to 240°F with a 5° to 30°F adjustable differential. The SPDT Micro Switch has many uses. As a limit switch, one side opens on temp. rise. Used to stop a fan from blowing cold air, the other side opens on temp. drop. Switch has an 8 Amp 120V or 5.1 Amp 240V rating.

Replaces Models
L 109-1-3-4-A-B-C-D
L 138-A-B
L 409-1-3-4-A-B-C-D
L 410-1-A
L 438-A-B
LA 109-A-B
LA 409-C

No.	Model L6006
73784	C1018





Honeywell Room Thermostats T87F

With Subbase — Without Subbase

Heating—Cooling Thermostat T87F

Low voltage, round thermostat with dustproof enclosed mercury switch and plastic adjustable temperature settings and snap on bronze plastic cover. This double acting 3 wire heating-cooling thermostat when used with a subbase gives complete control of heating-cooling units. With SPDT switch one side closing on temperature rise with cooling anticipation in cooling position and one side closing on temperature drop with heat anticipation in heating position. Heater 0.10 to 1.2 Amp. Range 40^0 to 90^0F. Capacity 1.5 Amp 25V AC. No. 70402 T87A1553 replaces old models T10-B; T11-1, -A, -B; TM11-A; TM81-A, -C; T83-A, -C, -D, -E; T86-A; T87-A, -C; T88-A, -C, -D, -E; T804-A, -B; T837A; T583D; TS88D; TS827-A, -B. Heater 0.18 to 0.8 Amp. Range 60^0-90^0F.

No.	Back Plate Feature
70402	T87F1859 3 Terminal
73536	T87F1867 3 Terminal Positive Off
73537	T87F1826 2 Terminal Locking Cover

Subbase For Heating and Cooling Thermostat Q539

Thermostats may be mounted on subbase for manual switching. Subbase has cooling anticipation heater. Subbase will mount on wall or switch box.

No.	Q539	Operating Switch	Fan Switch
73540	—A1014	Cool-Off-Heat	Auto-On
	(No. 70402 and No. 73536 Include 6" Decorator Ring)		
70448	—A1147	Cool-Off-Heat	Auto-On
73541	—C1020	Cool-Off	Auto-On
	(No. 73541 For Cooling Only)		
73543	—B1005	Cool-Off-Heat	None
73769	—J1006	Cool-Off-Heat	Auto-On
	(73769 For Heat Pump & Elect. Heat)		

Thermostat with Adjustable Heat Anticipator

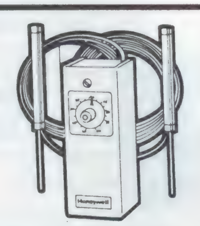
Use with No. 73540 Sub Base for heating and/or cooling applications, with switching at the thermostat. SPDT switch. Heater capacity 0.1 to 1.2 amps; range 40^0 to 90^0F. Includes 2-terminal back plate for heating application.

No.		Description
73733	T87F2873	Thermostat

Powerpile Heating Thermostats

Powerpile thermostats are used in gas heating Powerpile systems where the Powerpile Generators supply the 750 millivolts DC current they use. No. 70466 M-H TS86A 1231 thermostat replaces old T83A, D, T804A, B, TS83D, TS88D, TS827A, B.
70466 M-H TS86A 1371

Honeywell Outdoor Reset Control



These controls have a temperature sensing element that mounts outdoors and another temperature sensing element that is inserted in the plenum of a hot air furnace or inserted in the hot water boiler of a hot water heating system. As the outside temperature drops below 70^0F., the outside element increases the temperature setting of the inside heat controlling element at a preset ratio. This gives a consistent heat level in the living space. At an outdoor temperature of 70^0F., the adjustable control range is 70^0 to 140^0F. with an adjustable differential from 6 to 20. Capacity full-load 8 Amps. at 110V or 5.1 Amps. at 240 VAC. Outdoor bulb guard and clip are supplied; temperature reset ratios are measured at the bulb locations.

No.	Honeywell T475A	Outdoor Temperature Drop	Indoor Temperature Drop
73360	1032	1^0	1^0
73361	1057	1^0	1-1/2^0
73362	1016	1-1/2^0	1^0

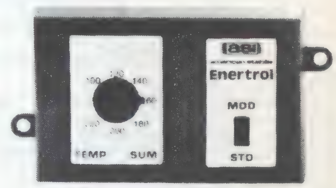
Honeywell Chromotherm Fuel Saver Thermostat Model T 8085 A 1004



24 volt electric clock, powered by heating systems transformer. Saves energy automatically, this thermostat can be programmed to raise and lower the temperature once or twice a day.

No.	Description
70685	Model T8085 A 1004 With Heating Only Base
70686	Q682 B 1011 Subbase Heat-Off-Cool

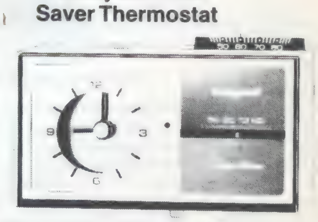
Enertrol An Electronic Solid State Fuel Saving Outdoor Reset Control for Forced Hydronic Systems



An electronic sensing device that uses solid state probes to measure outside temperature, boiler operating temperatures, and building heat loss. This energy saving device computes and controls the output temperature of the boiler so that it reaches only the temperature necessary to satisfy the room thermostat. By proportioning the heat output to building heat losses, the unit can eliminate up to 25% excess fuel consumption. Compatible with any standard forced hydronic system, the energy efficient design prevents expensive overshoot and stabilizes room temperature to $+1^0$F. Enertrol is designed for application on any gas or oil fired forced hydronic system. Installed in minutes with no modifications needed to standard boiler controls. Adaptable to time setback systems. Features fail safe protection. Maintenance free, and is designed to pay dor itself in less than 2 heating seasons.

No.	Description
73805	24 Volt Gas Valve Fuel Saving Control
73806	Power Pile Gas Valve Fuel Saving Control

Honeywell Fuel Saver Thermostat



Model T 8082

Allows automatic program of the thermostat to 2 different temperatures each day. Change button switches from comfort to energy saving mode, or visa versa. Features an accurate and reliable battery operated Quartz clock. Elegant in appearance. Savings of 9 to 30% on heating, 7 to 25% on cooling. Qualifies for Federal tax credit of 15% of total installed cost. Classic styling blends with any decor.

No.	Description
70684	Honeywell Thermostat Model T8082 A 1148

Subbase Heat

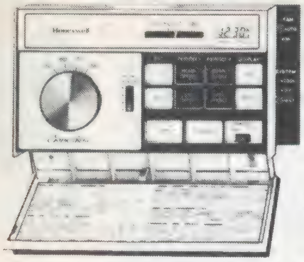
Subbase Switches Heat — Off — Cool and Fan Auto — On

Part No.	Q682A	Description
70561	1012	Individual Heat and Cool Circuits
70562	1020	With Auto in Heat and in Cool Cycles for Electric Heat Systems
70563	1038	Single R Terminal

SEE SEPARATE PRICE LIST

Thermostats

Honeywell T-8200



Allows programming of temperature change automatically once or twice a day, 5 or 7 days a week. Digital clock indicates time, day, energy saving programs and mode. Skip key will skip the next raising or lowering of temperature. Change key will switch from comfort to energy saving mode or visa versa. Offset indicator shows when energy saving mode is working. Saving of 9 to 30% heating, 7 to 25% cooling.

No.	Description
70680	Honeywell T8200 A 1095 Model
70681	Q6000A 1005 Subbase for Heating & Cooling Fan Switch Auto On, Cool-Off Heat
70682	Q6000 B 1003 Subbase for Heating Only

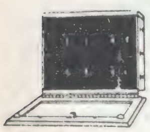
Two stage Thermostat L6018

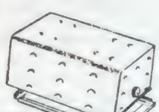


Has 2 SPDT switches for 2 stage low voltage switching at 8.0 Amp 120V AC or 5.1 Amp 240V AC. Switches have low resistance contacts for use with power pile or other low energy circuits. Bulb 5/16" diam. 11-11/16" long with a 5-1/2 Ft. cap. tube.

No.	Model L6018	Range
73629	D1004	55° to 85°F

Tamperproof Metal Guards For Thermostats

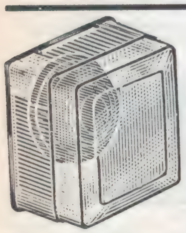




Ring base fits over the existing thermostat and the tamperproof louvered cover locks on with an eight tumbler lock. Covers most popular thermostats whether vertically or horizontally mounted. No. 73790 is hinged to base. No. 73791 lifts off with mounting hardware and key.

No.	BTG	High	Wide x Deep
73790	54VLW	5-7/8"	3-11/16"x3-1/8"
73791	UWM	6-3/8"	4-1/2"x3-9/16"

Watsco Thermostat Guard



This clear, shockproof plastic guard prevents tampering with thermostat settings. Numerous large slots give good air circulation. Fits any thermostat 5-7/16"x5-7/16"x 3-1/4" or less. Overall 6-1/4"x 7-3/16"x 3-11/16". With lock and 2 keys.
1557

Honeywell Thermostat Guard For T26, T86 and T87



This guard fits over T26, T86 and T87 thermostats to protect them from damage and to discourage tampering.

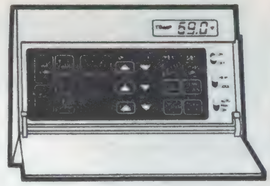
70467 TG503A 1000

Honeywell Clear Plastic Thermostat Cover

Clear plastic cover for MH thermostats to protect from damage and unauthorized adjustment. With solid base and tumbler lock with 2 keys.

Part No.	TG	Cover In Inches HW D	Base HW
73781	500A 1003	5-5/8x6-7/8x3	5-1/2x6-9/16
73782	501A 1002	5-5/8x8-5/8x3-5/8	6-1/4x8-3/4

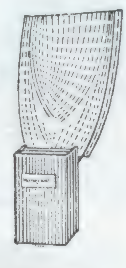
Digistat Programmable Setback Thermostat



American Stablis' solid state Digistat allows fingertip programming setup and setback of the temperature up to three times a day weekdays, twice on Saturday and twice on Sunday. Liquid Crystal Display for all functions during programming and a continuous temperature display accurate to within .2 degree. The unit features a clear key to erase previous programs and an override key to advance to the next program. Energy cost savings of up to 30% on heat and 25% on air conditioning. The Digistat will replace an existing 24 V heating and air conditioning thermostat and handle up to 1.2 amps. A 9 volt rechargeable battery should be added to maintain programmed function during power failure. The thermostat may be used with both heating systems (2 wire or 3 wire) or heating and air conditioning systems (4 wire and/or 5 wire). Comes complete with installation instructions.

No.	Description
73800	Digistat H-C
73801	Interface III Isolating Relay for use in Direct Spark Ignition, Power Pole, Multi-Volt
73802	SR 890 Solid State Transformer Relay for use on Line Voltage Application
73807	Digistat H-C/RS with remote sensor. Digistat can be located in a controlled location with the sensor located in the area to be controlled. Ideal for apartment buildings, commercial applications and industrial buildings.

M-H Sail Switch 5688A



Acts as a safety device to prevent operation of heating equipment, electronic air cleaners, odor controllers, humidifiers, etc. unless there is positive movement of air through the ductwork. Consists of a polyester film sail mounted on a snap-action SPDT micro switch. Applicable to 24, 120 and 240 VAC circuits. Full-load electrical rating 2.0 amps at 120 VAC. Operates on an INCREASE in air duct velocity, makes contact at 250 ft./min., breaks at 75 ft./min. Mount in return airduct with vertical (up or down) or horizontal air flow. Case has knockouts at top and bottom for wiring convenience. Maximum ambient temperature 125°F (52°C) at switches, 170°F (77°C) at sail. Case is 2-5/16"H., 3-3/4"W., 2-1/8"D. Sail insertion length 10"; maximum width 5". U.L. Listed.

No.	Model No.	Description
73763	S688A1007	Sail Switch
73764	123773A	Replacement Polyester Film Sail

Combination Warm Air Furnace Control



Combines in one unit a furnace fan control and a high limit control with one element. Separate coiled bi-metal elements control separate enclosed Con-tac-tor switches. Fan control has separate on and off settings and "on" switch for continuous operation. Interlocking settings keep fan "on" point below limit cut out. Fan on range 65° to 220°F. and off range 50° to 205°F. Limit control has adjustable scale. Range 95-250°F. Fan diff. adj. 15°, limit diff. fixed 25°F. Approx. ½ HP motor. 11" element. Element ⅝" diameter with universal insertion tube adapters allowing replacement of ⅝, ¾, or 1" diam. models. No. 70313 Model Tradeline L4064B1451 replaces Old Model LA101, LA201, LA401, L498, L4017, L4030, and L4070.

No.	Model L4064B	Element
70313	1451	11" Super Tradeline
70498	2210	11" Tradeline
70455	1469	5" Super Tradeline
70499	2228	5" Tradeline

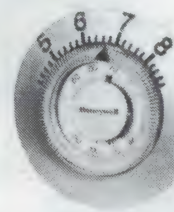
T822C, D Thermostat



With SPST silent mercury switch for 2 wire 24V cooling and heating systems. Has external temperature adjustment. T822D has adjustable 0.18A to 0.8A heater, and T822C has 0 to 1.0A fixed heater. Range 55° to 95° F. with 2° differential. 4¾" H x 2⅞" W x 1⅛" D.

No.		Used For
73593	T822D1024	Heating
73594	T822D1032	Heating
(No. **73594** Has Manual Shut-Off Switch)		
73595	T822C1090	Cooling

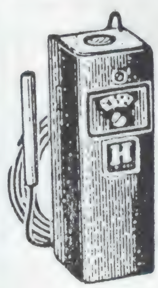
For The Visually Impaired



This thermostat has large raised numbers. When setting thermostat there is an audible click at each 2^0 change. Comes with ring and wallplate. Temperature range: 40^0F. to 90^0F.

No.	Description
73751	T87F3467

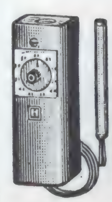
Refrigeration Control With 8 Foot Element



Remote mounting refrigeration temperature control with a —30^0 to +90^0 F temperature range and 3-1/2^0 to 12^0 F adjustable differential; with SPDT micro switch rated at 8 Amp 120V or 5.1 Amp 240V. Used to control either on temperature rise or temperature fall for units as different as ducts, tanks, freezers, or coolers. Model T6031A1029.

No.
73671

Temperature Controller T675



Remote bulb thermostats for accurate temperature control of gases or liquids with control mounted oustide the sensory area. Full load 8.0 Amp at 120V AC or 5.1 Amp at 240V AC. Bulb 1/2" diam. 4" long. Cap. tube 5 ft. with SPDT switch and adjustable differential 3 to 10°F.

No.	Model T675A	Range
70440	1508	0 to 100°F
73652	1540	55° to 175°F
73653	1532	160° to 260°F
No. 73651 For Pilot Duty Only with 1^0F Fixed Diff.		
73651	1516	0 to 100°F

With two separate SPDT switches to control two separate circuits. Switches full load 8 amp at 120VAC or 5.1 Amp at 240VAC

No.	Model T678A	Range
73654	1437	0 to 100°F
73655	1445	55° to 175°F

SEE SEPARATE PRICE LIST

Penn Series P70 and P72 Controls

The double pole rating can be used in many different circuits because of the 2 pole single throw switch. Will control two separate load circuits and will control polyphase motors where protection against single phasing is provided. Both ratings are used to break the hot line on single phase circuits. Switch has a molded black body with large steel-backed silver contacts welded to beryllium copper. Visible calibrated scales show directly the cut-in and cut-out settings. Knobs used for limited adjustment. Universal brackets mount controls in any position.

Single Phase	Single Pole Rating		Two Pole 1272 Rating	
	115V	230V	115V	230V
AC Full Load	13.9	6.95	24	24
AC Locked Rotor	83.4	41.7	144	144
DC Full Load			4.6	2.3
DC Locked Rotor			46	23
AC Non-Inductive	13.9	6.95	24	24
DC Non-Inductive			3	.5

DC ratings do not apply to controls having external adjusting knobs.

Penn Temperature Controls



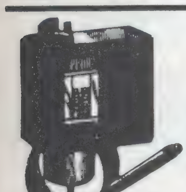
General purpose series A 19 temperature controls that close on high. External screwdriver adjustment on front plate. Has 6 ft. tube and integral mounting. SPST switch.

No.	A19ABC	Range	Adj. Diff.
21356	24	—30 to 100°F	3 to 12°F

Same as above for general purpose and duct control with SPDT switch with 8 ft. or tube. External adjustor knob.

No.	A19ABC	Range	Adj. Diff.
21357	4	50 to 130°F	3½ to 14°F

Penn Temperature Controls

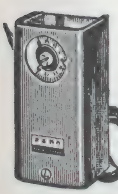


Has 6 ft. power element and ⅜" bulb. Has DPST contacts, visible adjustable scale. Diff. 3°F. at top and 5° F. at bottom of range with a maximum adjustment range of 40°F. Without adjustment knob.

Electrical Rating For Double Pole Less Adjusting Knob

No.	Range	A72AA-	Adj. Diff.
20900	15° to 55°F	2	4° to 45°
20901	—30° to 30°F	1	3° to 30°

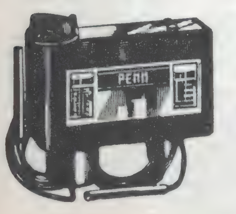
Penn Corrosive Liquid Bath Control



For controlling photographic or industrial liquid bath temperatures. Has 72" tube and ⅜"x6⅝" bulb completely covered with an acid and alkali corrosive resistant neoprene covering. With a $1\frac{1}{2}^0$ fixed differential and SPDT switch. Full load rating 5.8A 120V or 2.9A 24OV. Has slotted ¼" square screw adjustment on front. 2000 Watt non-inductive load. Type A 19AAF4. Range 40° to 90°F.

20954

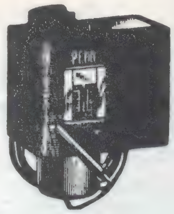
Penn Low Pressure Control With High Pressure Cutout



Low pressure range 20" vac. to 100 lb. pressure, with 6 to 50 lb. differential. High pressure cutout range from 100 to 425 lb. cutout with cut in about 65 lbs. below cutout. Two 36" tubes with ¼" SAE flare nuts. For R-12 and R-22 refrigerant.

No.	Code No.	Elec. Rating
20971	P70LB-1	SP
20902	P72LA-1	DP
With High Pressure Lockout Manual Reset		
20937	P70MA-1	SP

Penn Series P70 Low Pressure Control



Range 20" vac. to 100 lb. pressure with adjustable differential 6 to 50 lbs. 36" tube with ¼" tube for flare connections. External adjustment knob for about 7 lb. range setting which may be changed to adjust cut in. Closes on high pressure, opens on low. With ¼" SAE flare nuts. Single Pole. For R-12 and R-22 refrigerant.

No.	Code No.	Elec Rating	Range
20970	P70AB-2	SP	20"—100 Lb.

Same as above but Model 1272 with 2 pole contacts and without external adjustment knob.

No.	Code No.	Elec Rating	Range
21353	P72AA-1	SP	20"—100 lb.

Single Pole High Pressure Cutout

Single pole high pressure cutout with 50 to 450 lb. range and 60 to 150 lb. adj. diff. Opens on high pressure.

No.	Code No.	Elec Rating	Range
21354	P70CA-3	SP	50"—450 lb.

Reverse Acting Low Pressure Control

Same as No. 20970 but set to open on high pressure and close on low. Without knob adjustment.

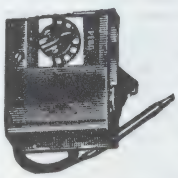
No.	Code No.	Elec Rating	Range
20974	P70CA-1	SP	30"—100 lb.

Reverse Acting High Pressure Control

Set to close on high pressure. Adjustable range but without external knob adjustment.

No.	Code No.	Elec Rating	Range
20975	P70AA-2	SP	0—150 lb.
20948	P70AA-118	SP	100—400 lb.

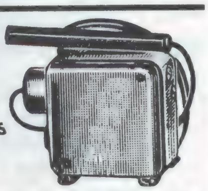
Fan Delay Control For Defrost Cycle



Series 239 designed to delay the evaporator fan until the temperature of the coil drops to 25°F. The defrost termination range of the control is 45° to 85°F. Used with electric defrost or hot gas defrost systems. Has SPDT switch and 6 ft. tube. Penn No. A 19ZBC-2.

21316

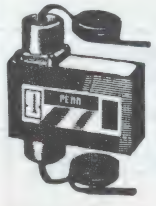
Penn Model A72 Control For Cooling Towers and Evaporative Condensers



Control is a 2 pole heavy duty electrical rating with a rubber gasketed, weather proof case, and a neoprene covered ¾" bulb 6" long. Adjustable range 25° to 90° and adjustable differential from 4° to 25°. Has grey enameled finish and metal mounting brackets. No. 20942 opens on drop in temperature to stop the fan or blower when the water is cool enough.

No.	Penn A-72-	Contacts Open	Contacts Close
20942	AE-1	Temp. Drop	Temp. Rise

Penn Differential Oil Protection Control



Protects pressure lubricated Freon compressors on large refrigeration systems from oil pressure failure by opening the circuit and stopping the compressor when the lubricating oil pressure is too low in relation to the refrigeration suction pressure. Differential between the oil and suction pressure is adjustable from 8 to 70 lbs. Connections ¼" OD tube on 36" element. For 120/240V 750VA. AC DC, Type P28AA

20951 With 60 Second Time Delay
20952 With 90 Second Time Delay
20947 With 120 Second Time Delay

For Ammonia Compressors

Similar to above but with stainless steel bellows with ¼" FIPT connections. Type P28AN-1. With 90 second time delay.

20953

Penn Air Temperature Control For Air Conditioning And Heating

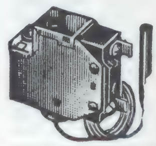


A single pole, double throw air temperature control for forced air ventilation or automatic heating for barns or poultry houses. For conduit or wall mounting. Range 30^0 to 110^0F with fixed differential of $3\frac{1}{2}^0$F. Takes 16 Amp 115V AC or 8 Amp 230V AC motor load.

No. A19BAC-1

21099

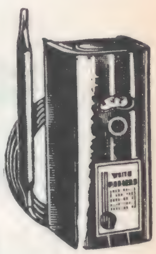
Penn Pressure Controls For Air Conditioners



These pressure controls are mounted in air conditioner cabinets. They have SPST contacts and opens on low and closes on high pressure. Tube 36" with ¼" OD end. Have push on connections and screwdriver adjustment.

No.	P20-	Range	Diff.
21350	EB-1	7 to 150 lbs.	25 lb.
Opens On High and Closes on Low Pressure			
21351	EB-2	100 to 450 lbs.	70 lb.
Lock Out With Manual Reset Open On High Pressure			
21352	DB-1	100 to 450 lbs.	70 lb.

White-Rodgers Hydraulic Action Temperature Control



The element provides close-differential control, positive accuracy at any temperature in the dial range. Calibrated evenly and accurately in F° it can be mounted in any position or any angle. Quickly and easily adjusted with a screwdriver. Has range of —30°F. to +90°F., with adjustable differential of 3° to 25° with 5 ft. tube and 5-3/4" x 3/8" bulb. W-R No. 1609-101.

21303

Same as above but with 15-1/2" air sensitive bulb. W-R No. 1609-106.

21304

Temperature Control For Remote Control

Same range as 21303 but with 10 ft. of tubing for remote control and a 3-1/2° to 40° adjustable differential. W-R No. 1609-103.

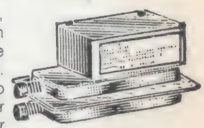
21302

Selective Range Temperature Control

Similar to above temperature controls, but with outside adjustment knob to vary the range any 10°. Range adjustable from 20° to 75°F. with differential from 3° to 20°F. Has 5 ft. tube and 7-1/4" x 3/8" bulb.

21306 WR 1629-33.

White-Rodgers Air Switch



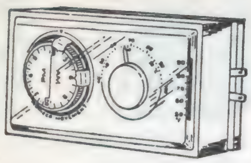
This air switch comes in single pole, double throw configuration that can be actuated by negative or positive pressure or by pressure differential. This enables the switch to be used to prove air flow in duct heaters, power humidifiers, refrigeration and air conditioning coils, gas fired units, and natural draft boilers, etc. The range is adjustable on pressure rise .07" to 12" WC. Switch. SPDT, 300 VA, Pilot Duty or 10A non-inductive 115-277 Volt, AC. Sample line connection will take 1/4" O.D. tubing, threaded 7/16"-24 with nut and ferrule. Operating temperature range is —40° to 180°F. Diaphragm must be mounted in vertical position. Overall dimensions: 6" long 3-1/4" wide, 3" deep. Mtg. centers 3-7/8".

No.	Model
21317	W-R 770-1

SEE SEPARATE PRICE LIST

Thermostats

White Rodgers Comfort-Set Automatic Low Voltage Thermostat



A low voltage set-back thermostat for heating and cooling with a solid state timer that automatically lowers or raises temperature for one or two periods of time within 24 hours, for intervals as short as 2 hours. Timer is powered by a rechargeable nickel cadmium battery that charges automatically off the 24 volt circuit. Temperature selections colored Red (HI) and Blue (LO). Selectors can be moved together to eliminate set-back when desired. Allows easy installation of set-back thermostat without additional wiring. Temperature Range: 50°F-90°F. Adjustable heating anticipators from .15 to 1.0 Amps, Cooling fixed anticipator 0 to 1.5 Amps. 30 V max. Electrical Rating: 24V. 60Hz. (30 V max.) Dimensions: 3-1/4"H x 6-1/16"W x 2-5/16"D. Finish: Dark beige with gold tone dial.

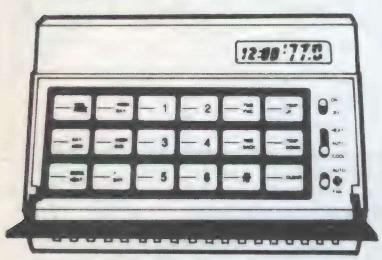
No.	White-Rodgers	Description
21322	1F-76	Thermostat with 2 Set-Backs

White-Rodgers Space Thermostats



Self contained space thermostat has the hydraulic action element giving quick, accurate response to temperature change. Used inside walk-in coolers on line voltage to control temperature. Adjustable range of 20° to 90° with differential of 3° to 20°. Adjustments made with a screwdriver.
21312

SUPERSTAT Computerized Heating/Cooling Multi-Stage Programmable Thermostat



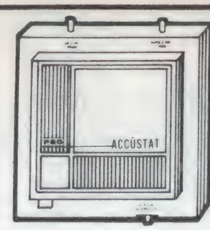
American Stabilis' solid state Superstat allows you total control of your heating and cooling needs. It provides maximum in energy savings along with the ultimate in personal comfort and controls up to three stages of heating and up to three stages of cooling in both residential and commercial applications. Superstat is Micro-processor controlled and allows for programmable or manual operation with automatic or manual changeover. Other features include true seven day programming with up to six program periods per day allowing for up to 84 programs per week; independent heating and cooling memory, temporary or indefinite override, simple three wire connection from Superstat to interface and factory safety settings. Special features include a manual programming key and emergency heat key and a Heat /Auto/Cool switch. The digital information center display accurately displays time, temperature, day and mode of operation.

Superstat comes with an interface which is micro-processor controlled and allows for total customizing of the Superstat. The dip switch provides five options for fan, heating and cooling allowing for the ultimate in comfort and maximum in energy savings. Optional features include a rechargeable 9 volt battery, remote sensing and a key lock feature.

Superstat is adaptable to all heating and cooling systems and qualifies for energy tax credits. Comes complete with installation instructions.

73810	Superstat Multi-Stage Thermostat with Interface

Accustat Solid State Thermostats

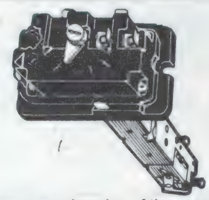


Single stage thermostats with one single pole single throw solid state circuitry. Snap in sensors are mercury filled capillary glass tubes with platinum contact points (only one sensor required for LA-1 and LH-1 models, more sensors required for all other models). Accurate within ±0.5 degrees Fahrenheit. Manual switching for set-point temperature selection; automatic or manual switching for heating and cooling mode selection and fan control ("Off" position also provided). Operate on 24-30VAC 1 Amp maximum. Select sensors for desired temperature. Not included with thermostats.

No.	Model	Description
70771	LA-1	Cooling only uses 1 sensor
70742	LH-1	Heating only uses 1 sensor
70772	LH-2*	Heating only uses 2 sensors
70741	LMS-AH11	Htg/Cooling 2 sensors (auto changeover)
70773	LAH-22	Htg/Cooling 4 sensors (2 ea. htg/cooling)

*Has 3 position switch Lo/Off/Hi

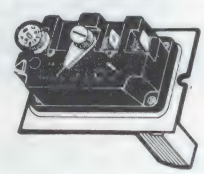
CAM-STAT Combination Fan and Limit Control With Time Start Delay



The time delay turns on the blower as a function of time and/or temperature after the room thermostat calls for heat and turns off the blower as a function of temperature at the indicated dial setting of the fan. A limit adjustment is provided to match the setting of the old device being replaced. Electrical data: Fan terminals SPST 13.8 AMPS at 120 VAC and 8.0 AMPS at 240 VAC.
Limit terminals SPST 4.4 AMPS at 120 VAC.
Time delay at 24 VAC 25 to 60 seconds.

No.	Model No.	Fan OFF Temperature	Fan ON Differential	Limit Temperature
28186	FALTS57C-05T-120-A	90°-120°F	50°F	150°-250°F

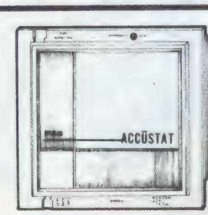
CAM STAT Interchangeable Fan Controls



These universal replacement fan controls incorporate an adjustable temperature dial to enable the installer to match the setting of the device being replaced for Luxaire Inc., and National Kresky Ward. SPST contacts rated at 13.8 AMPS at 120 VAC, 8 AMPS at 240 VAC.

No.	Model Number	Element Extension	Adjustable Settings °F Fan OFF Temp.	Fan ON Differential
28184	F47-3TD-120-25C	3 in.	90-120	25-45
28185	F47-7TD-120-25C	7 in.	90-120	25-45

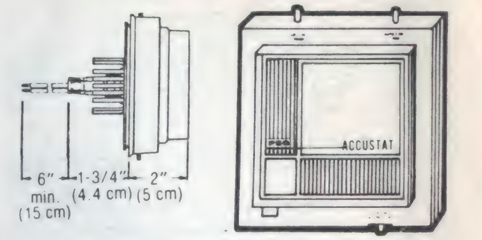
Accustat Multi Stage Thermostats



2 stages heating and 2 stages cooling in any combination, 1 sensor for each stage, along with optional "zero energy band" operation. Zero energy band restricts heating or cooling as long as ambient temperature stays between 65 and 78 degree set points. On/Off switch. On/Auto fan switch. Heat/Auto/Cool System switch. Operate on 24-30 VAC 1 Amp. maximum.

No.	Model	Accustat
70774	LMS-AH 22NS	For Cooling/Heating

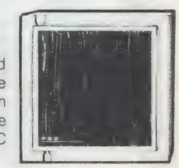
Accustat Line Voltage Thermostats



Simple and extremely effective Accustat Line Voltage Thermostat locks in temperature desired and maintains it within system capacity—no drifting. Sensor accuracy good to ±.5°F. Eliminates all need for anticipators and their periodic adjustments. Sensors are sold separately. Both 115 and 220 Volt Accustats have relays to handle a 20 Amp resistive load. Inductive load is 16 FLA for 115V and 12FLA for 220 V.

No.	Model	Description	Voltage
70790	LV-120A-H1	1 Temp Setting	115
70791	LV-120A-H2	2 Temp Setting	115
70792	LV-220A-H1	1 Temp Setting	220
70793	LV-220A-H2	2 Temp Setting	220

Accustat Limiters



Can be duct or wall mounted and wired in series with existing thermostat. The limiter overrides the thermostat when the room temperature reaches the selected level. Operate on 24-30VAC at 1.0 Amp maximum.

No.	Model	App.	Sensors	Limiter
70745	LIM-A-1	Duct	1	Cooling
70775	WLIM-A1	Wall	1	Cooling
70744	LIM-H1	Duct	1	Heating
70776	WLIM-H1	Wall	1	Heating
70743	LIM-AH11	Duct	2	Cool/Heat
70777	WLIM-AH11	Wall	2	Cool/Heat

Snap On Sensors

These mercury filled sealed capillary glass tube sensors have platinum contact points and are accurate to ±0.5F.

No.	Model	Temperature
70755	S45	45°F
70746	S55	55°F
70756	S62	62°F
70747	S65	65°F
70748	S68	68°F
70749	S70	70°F
70757	S72	72°F
70758	S74	74°F
70759	S76	76°F
70750	S78	78°F
70760	S80	80°F

Honeywell Dehumidifier Control



H46

Designed to automatically control portable dehumidifiers to maintain the proper humidity. Has combination receptable and plug to connect the control in series with the dehumidifier. Adjustment knob on top changes tension on nylon ribbon sensing element. Case has silver bronze finish with light beige face with attractive plastic cover. Knob on front of case adjustment has off position with range from 20 to 80% R.H. Rated 7.5 Amp 120V AC full load. The sensing element is a fast responding moisture sensitive nylon ribbon. Enclosed switch has dust free contacts. Includes 6 ft. electric cord with prong interrupter plug with 2 prong adapter.
73521 H46E 1013
Dehuidifier control with the same specifications as No. 73521 but with lead wires for built in equipment.
73522 H46C 1000

Honeywell Humidifier Controls

These humidifier controls have the same attractive case and construction with a 4.4 Amp 120V AC full load capacity. The nylon sensing element actuates the enclosed switch, breaks on humidity increase to control humidity. Range 10 to 60% RH.
With lead wires only for built in equipment.
73524 H46D 1032

SEE SEPARATE PRICE LIST

Flanged Angle Shells For V8000 Dri-Cor Filter Driers and Filters



Corrosion resistant steel with copper solder connections supplied with the necessary gaskets and screens and spacers to install. Driers and filters not incl. 4-3/4" flanged shell without drier.

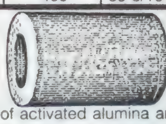
4-3/4" Flanged Shell Without Dri-Cor Drier

No.	Henry	ODS	Holds Cores	Core C.U. Volume	Overall Long
61600	V8048	5/8"	1	48	10"
61601	V8048	7/8"	1	48	10-3/16"
61602	V8096	7/8"	2	96	15-3/4"
61603	V8096	1-1/8"	2	96	15-13/16"
61606	NV8192	1-3/8"	4	192	27-1/8"
61607	NV8192	1-5/8"	4	192	27-1/8"

6" Flanged Shell W/O Dri-Cor Drier or Filter

No.	Henry	ODS	Holds Cores	Core C.U. Volume	Overall Long
61608	NV8300	1-5/8"	3	300	28-9/16"
61609	NV8400	2-1/8"	4	400	35-3/16"

Filter-Drier Cores and Filters For Flanged Shells



These desiccant blocks are molded of activated alumina and molecular sieve. There are three types: standard, hi-capacity filter driers, and micronic filters. Cans contain fresh gaskets for installation. Interchangeable with each other and are replacements for the same type assemblies of other manufacturers.

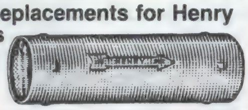
Cartridges For 4-3/4" Flanged Shells No. 61600 to 61607

No.	Cu. In.	Type
61610	48	Standard Core
61611	48	Hi Capacity Core
61613	48	Filter Dri Filter

Cartridges For 6" Flanged Shells No. 61608-09

No.	Cu. In.	Type
61612	100	Hi Capacity Core
61614	100	Filter Dri Filter

Cartridges are replacements for Henry Dri-Cor filter driers used in Type 87C flanged shells.



No.	Shell	O.D.	Cartridge No.	Long
61615	77	2"	872C	5"
61616	78	3"	873C	9"
61617	79	4-1/4"	876C	10-1/2"

Moisture Magnet Service Drier



For home refrigerators, freezers and small commercial units and air conditioners. These driers are nondirectional and may be installed in either direction.

One dir. installation only.

No.	Inlet	Outlet	No.	Inlet	Outlet
61831	1/4"	3/16"	**61847**	1/4"	3/16"
61832	1/4" 5/16" 3/8"	3/16" 1/4" 5/16"	**61843**	1/4"	.089/.092
			61844	5/16"	.127/.130

Dry Eye Moisture Indicating T-Flo Fitting



A built in leak-proof sight glass shows if the refrigerant is dry or dangerously wet. Colored to match the blue for dry R-12, green for dry R-22, and pink for either refrigerant when wet.

No.	Size	No.	Size
24720	1/4" SAE	**24724**	3/8" OD
24721	3/8" SAE	**24725**	1/2" OD
24722	1/2" SAE	**24726**	5/8" OD
24723	5/8" SAE		

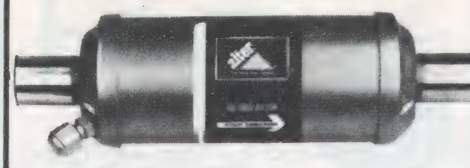
T-Flo Drier

Any drier may be replaced without disturbing the T-Flo fitting installed in the line.

T-Flo Driers Without Fittings

No.	Cap. Cu. In.	Overall Length	No.	Cap. Cu. In.	Overall Length
24640	8	5-1.8"	**24642**	20	7"
24641	12	6-5/8"	**24643**	30	9-1/4"

Suction Line Filter Drier



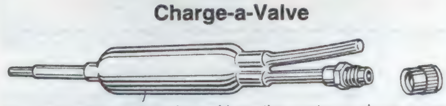
Designed for permanent installation in suction line. Has access valve to check pressure drop, or to charge system.

No.	Size	Desiccant Cu. In.
2030	3/8" SAE	8
2031	1/2" SAE	8
2032	3/8" ODS	8
2033	1/2" ODS	8
2034	5/8" ODS	11
2035	3/4" ODS	14
2036	7/8" ODS	14
2037	1-1/8" ODS	24
2038	1-3/8" ODS	44
2039	1-5/8" ODS	44

Similar to above but with access valve on both inlet and outlet. Valve stems are packed separately to prevent heat damage during installation.

No.	Fitting Type & Size	Cubic Inches Desiccant
61856	3/8" SAE flare	8
61857	3/8" sweat	8
61858	1/2" SAE flare	8
61859	1/2" sweat	8
61838	5/8" sweat	8
61839	5/8" SAE flare	13-1/2
61850	5/8" sweat	13-1/2
61851	3/4" sweat	13-1/2
61852	7/8" sweat	27
61853	1-1/8" sweat	27
61854	1-3/8" sweat	54
61855	1-5/8" sweat	54

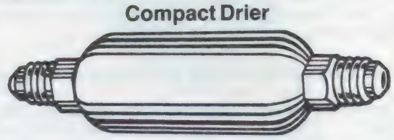
Charge-a-Valve



For evacuation or charging refrigeration systems where access valves are not on original equipment. Has 1/4" SAE access valve with Schrader type core and brass seal cap.

No.	Inlet Tube OD	Outlet Cap. Tube
61845	1/4"	.089/.092
61846	5/16"	.127/.130

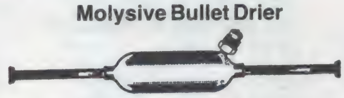
Compact Drier



Small drier for limited space yet giving maximum drying. For units up to 1/3 HP with R-12 or 1/2 HP with R-22. 4" overall

No.	SAE Conn.
61833	1/4"

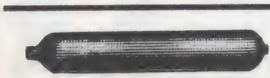
Molysive Bullet Drier



Copper drier with 1/4" tubes on each end and access fitting on body. 3/4 HP.

No.
60499

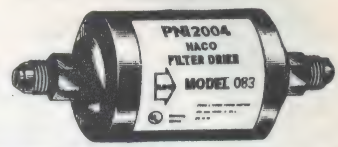
Spun Copper Drier



Soldered inlet .191 to .194 I.D. outlet .099 to 101 I.D.

No.
2015

Filter Drier



Standard size, interchangeable with driers of other manufacturers.

No.	Model	SAE Size	Capacity Cu. In.
2000	032	1/4"	3
2001	052	1/4"	5
2002	053	3/8"	5
2003	082	1/4"	8
2004	083	3/8"	8
2024	084	1/2"	8
2005	162	1/4"	16
2006	163	3/8"	16
2007	164	1/2"	16
2008	165	5/8"	16
2009	303	3/8"	30
2010	304	1/2"	30
2011	305	5/8"	30
2012	413	3/8"	41
2013	414	1/2"	41
2014	415	5/8"	41

Flare Connection Liquid Line Filter Driers

No.	Mfr's No.	Conn. SAE	Cap. Cu. In.
61800	032	1/4"	3
61801	052	1/4"	5
61802	053	3/8"	5
61803	082	1/4"	8
61804	083	3/8"	8
61970	084	1/2"	8
61848	162	1/4"	16
61805	163	3/8"	16
61806	164	1/2"	16
61807	165	5/8"	16
61808	303	3/8"	30
61809	304	1/2"	30
61810	305	5/8"	30
61971	413	3/8"	41
61811	414	1/2"	41
61812	415	5/8"	41

Solder Connection Liquid Line Filter Driers

No.	Mfg's No.	ID	OD	Cap. Cu. In.
61890	032S	1/4"	3/8"	3
61891	052S	1/4"	3/8"	5
61892	053S	3/8"	1/2"	5
61972	082S	1/4"	3/8"	8
61894	083S	3/8"	1/2"	8
61973	084S	1/2"	5/8"	8
61974	162S	1/4"	1/8"	16
61815	163S	3/8"	1/2"	16
61975	164S	1/2"	5/8"	16
61976	165S	5/8"	3/4"	16
61977	303S	3/8"	1/2"	30
61816	304S	1/2"	5/8"	30
61817	305S	5/8"	3/4"	30
61818	414S	1/2"	5/8"	41
61819	415S	5/8"	3/4"	41
61979	417S	7/8"	1"	41
61822	756S	3/4"	7/8"	75
61980	759S	1-1/8"	1-1/4"	75

2-Way Heat Pump Filter & Drier

Removes contaminants, acids and moisture from liquid line in both heating and cooling cycles. Internal check valves eliminate need for external check valve system. Allows refrigerant liquid flow in either direction.

No.	Solder No.	Conn.	Des. Cu. In.
22240	22230	3/8"	8
22241	22231	1/2"	8
22242	22232	3/8"	16
22243	22233	1/2"	16

Silica Gel

Dehydrating Agent for Refrigerants

No.	Size
8671	1 Lb.
8672	5 Lb.
8674	25 Lb.

SEE SEPARATE PRICE LIST

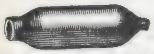
Expansion Valves (Eaton, Formerly Singer AP)



Trap-It Filter

Install in suction line before a new compressor to remove impurities.

No.	Overall	SAE	Ton Cap
13901	4-3/16"	1/4"	1
13902	4-11/16"	3/8"	1
13903	5-17/32"	1/4"	2
13904	6-1/32"	3/8"	2



Strainer

Large basket monel screen of 120 mesh for soldering between 1/4" OD line and .093 OD capillary tubing.

No.	Diam.	Long
2308	3/8"	1-3/4"
2307	5/8"	2-1/8"
1458	5/8"	3"
1459	3/4"	2"

Liquid Eye With Moisture Indicator



Provide a clear view through the pyrex tube to show the liquid present. A moisture reactor changes from a solid color to a striped color to show presence of moisture and changes back after the refrigerant is properly dehydrated.

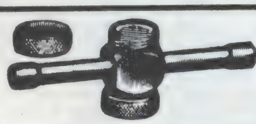
No.	Size SAE
21674	¼"x¼" Male
21675	⅜"x⅜" Male
21676	¼" Fem.x¼" Male
21677	⅜" Fem.x⅜" Male
21678	½"x½" Male
21679	⅜"x⅝" Male
21681	½" Fem.x½" Male
21682	⅝" Fem.x⅝" Male
	OD Solder
21683	¼"x¼"
21684	⅜"x⅜"
21685	½"x½"
21686	⅝"x⅝"

Liquid Indicator

When viewed through tube filled with liquid, indicator spot on one side appears magnified. Ports on both sides of the brass unit provide a clear view of vapor bubbles.

No.	Size SAE
21547	¼"x¼" Male
21548	⅜"x⅜" Male
21549	¼" Fem.x¼" Male
21550	⅜" Fem.x⅜" Male
21557	½"x½" Male
21558	⅝"x⅝" Male
21559	½" Fem.x½" Male
21577	⅝" Fem.x⅝" Male
OD Solder	
21670	¼"x¼"
21671	⅜"x⅜"
21672	½"x½"
21673	⅝"x⅝"

Liquid Line Indicator



Heavy glass porthole protected by a brass sealed cover. Double port gives straight through inspection.

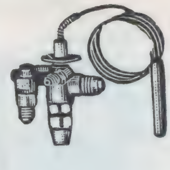
No.	OD	Length
21462	½"	5¾"
21463	⅝"	6-13/16"
21465	⅞"	7"
21466	1⅛"	7¼"

Moisture Indicator

The liquid indicator has indicating element in the center of the large clear sight glass that shows blue when dry and pink when wet.

No.	SAE
24729	¼" Male
24730	⅜" Male
24731	½" Male
24732	¼" Male to Fem.
24733	⅜" Male to Fem.
24734	½" Male to Fem.

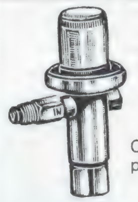
Eaton Controls Thermostatic Valve



Superheat adjustable from 3^0 to 18^0 factory set at 9^0 F. Outlet is ½" SAE.

Internal equalizer liquid cross charge (—40° to 50° F.)

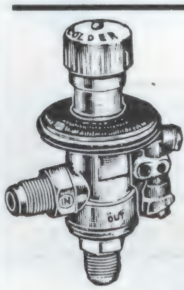
No.	Mfg.No.	Cap.	Refrig.	Inlet
13725	228-064	½ T	R-12	¼" SAE
13726	223-065	1 T	R-12	⅜" SAE



Eaton-204C Automatic Expansion Valve

Calibrated scale from 15" VAC to 45 lbs. pressure. ½ ton has ¼" SAE inlet.

No.	Outlet	Cap.	Refrig.
13925	¼" NPT	½ T	R-12
13957	⅜" SAE	½ T	R-12
13958	½" SAE	½ T	R-12
Bleed Type Can Be Used To Replace Cap Tubes			
13943	¼" SAE NPT	½ T	R-12

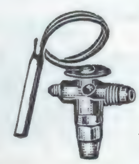


Eaton Suction Pressure Evaporator Valve

Range is 0" Vac. to 40 lbs. press. Capacity ½ T, R-12, ⅛" FIPT gauge port controlled by shut off needle valve for critical settings.

No.	Size
9499	½" SAE
13952	⅝" SAE

Eaton Controls Thermostatic Expansion Valve



External equalizer has ¼" male fitting. Superheat adjustable to 3° to 18° F. factory set at 9° F. Outlet ½" SAE. ZP 35# pressure limit for low temperature only. 30" cap tube.

External equalizer liquid cross charge (—40° to 50° F.)

No.	Mfg. Number	Capacity	Refrigerant	SAE Male Inlet
13709	223-012	½ Ton	R-12	¼"
13710	223-013	1 Ton	R-12	⅜"x¼"
13711	223-014	2 Ton	R-12	⅜"x¼"
13712	223-015	3 Ton	R-12	⅜"x¼"
13715	223-006	3 Ton	R-22	⅜"x¼"
13717	223-017	5 Ton	R-22	⅜"x¼"

Internal equalizer with ZP 35# pressure limit—Charge (—40° to 0° F.)

No.	Mfg. Number	Capacity	Refrigerant	SAE Male Inlet
13718	223-128	½ Ton	R-502	⅜"
13719	223-130	1 Ton	R-502	⅜"
13720	223-161	2 Ton	R-502	⅜"
13721	223-162	3 Ton	R-502	⅜"

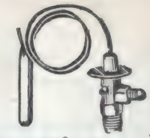
External equalizer with liquid cross charge (—40° to 50° F.)

No.	Mfg. Number	Capacity	Refrigerant	SAE Male Inlet
13722	223-156	1 Ton	R-502	⅜"x¼"
13723	223-158	2 Ton	R-502	⅜"x¼"
13724	223-159	3 Ton	R-502	⅜"x¼"

External equalizer with ZP 35# pressure limit—Charge (—40° to 0° F.)

No.	Mfg. Number	Capacity	Refrigerant	SAE Male Inlet
13764	223-131	1 Ton	R-502	⅜"

Eaton Controls Thermostatic Valve



Internally adjustable superheat factory set at 6^0F. 30" cap. tube.

No.	Mfg. No.	Nom./Cap.	Refrig.	SAE Male Inlet
13753	144	½ T	R-12	¼"
13754	145	1 T	R-12	⅜"

Replacement for Whirlpool and Frigidaire (Tin plated bulb and capillary.) Factory set at 5^0F Superheat; 30" cap. tube.

No.	Mfg. Number	Nom./Cap.	Refrig.	Inlet	Outlet
13790	226-064	¼ T	R-12	⅜" SAE	⅜" SAE



Eaton Controls Crankcase Pressure Regulator (Outlet Pressure Regulator)

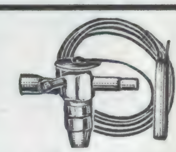
Capacity 1½ tons R-12. Slightly higher on R-22 and R-502. Can also be used for bypass use.

No.	AP Number	Connection	Adjustment Range
13955	237-203	⅝" SAE	10" to 75 lbs.
13968	237-204	⅝" O.D.	10" to 75 lbs.
13886	237-208	⅝" O.D.	0" to 155 lbs.
13900	237-301	⅞" O.D.	10" to 45 lbs.
13969	237-308	1⅛" O.D.	10" to 45 lbs.

For 3 ton capacity, R-12.

No.	Mfg. Number	Connection	Adjustment Range
13970	237-373	1⅜" O.D.	10" to 45 lbs.

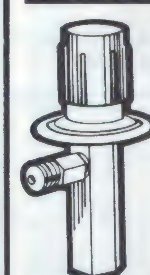
Eaton Controls Air Conditioning Valve



May be used with distributor as replacement for air conditioning. External equalizer has ¼" SAE fitting. Has adjustable superheat and 60" cap. tube.

For R22 refrigerant with 100# pressure limit. Gas charge.

No.	Mfg. Number	Nominal Capacity	O.D. Inlet	O.D. Outlet
13747	328-131	2 Ton	⅜"	⅝"
13748	328-132	3 Ton	⅜"	⅝"
13749	328-133	5 Ton	½"	⅞"

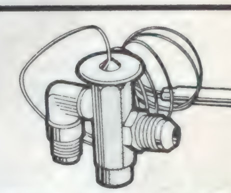


Parker Constant Pressure Expansion Valve (Automatic)

Cap. R-12 ¼-½, ¼-2 tons. Adjusting range: 5" hg. to 50 psig. Internal equalizer.

No.	Description
61897	Model A-1. Connection ¼" SAE Inlet, ¼" NPT Outlet.
61898	Model A-2. Connection ¼" SAE Inlet, ½" SAE Outlet.

Parker Thermostatic Expansion Valve

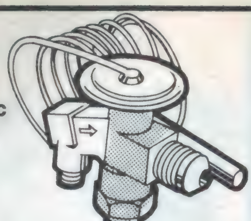


R-22, 100 M.O.P.

No.	Parker "C"	Nom. Cap.	Refrig.	SAE Inlet	SAE Outlet
61860	C3FW	⅓-3	R-12	⅜"x¼"	½"x⅜"
61862	C5VW	1-5	R-22	⅜"x¼"	½"x⅜"
61863	C5VW	1-5	R-22	½"	⅝"x½"
61864	C4RW	⅓-4	R-502	⅜"x¼"	½"x⅜"
¼" SAE External Equalizer Port and 60" Capacity Tube					
61866	CE3FW	⅓-3	R-12	⅜"x¼"	½"x⅜"
61867	CE3FW	⅓-3	R-12	½"	⅝"x½"
61868	CE5VW	1-5	R-22	⅜"x¼"	½"x⅜"
61869	CE5VW	1-5	R-22	½"	⅝"x½"
61870	CE4RW	⅓-4	R-502	⅜"x¼"	½"x⅜"
Operating pressure 15 PSI.					
61887	CE3FW15	⅓-3	R-12	⅜"	½"
Maximum operating pressure 35 PSI.					
61888	C4RW35	⅓-4	R-502	⅜"	½"

SEE SEPARATE PRICE LIST

Parker Thermostatic Expansion Valve

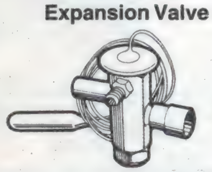


10^0 factory superheat.

Internal Equalizer Cross Liquid Charge (−40° to +50° F)

No.	Parker "D"	Nom. Cap.	Refrig.	SAE Male Inlet
60900	D1/4FW	¼	R-12	¼"
60901	D1/2FW	½	R-12	⅜"x¼"
60902	D1FW	1	R-12	⅜"x¼"
60903	D1-1/2FW	1½	R-12	⅜"x¼"
60904	D2FW	2	R-12	⅜"x¼"
60905	D3FW	3	R-12	⅜"x¼"
60907	D1-1/2VW	1½	R-22	⅜"x¼"
60908	D3VW	3	R-22	⅜"x¼"
60909	D1/2RW	½	R-502	⅜"x¼"
60910	D1RW	1	R-502	⅜"x¼"
60911	D2RW	2	R-502	⅜"x¼"
60912	D3RW	3	R-502	⅜"x¼"
External Equalizer Cross Liquid Charge (−40° to +50°F)				
60913	DE1/2FW	½	R-12	⅜"x¼"
60914	DE1FW	1	R-12	⅜"x¼"
60915	DE2FW	2	R-12	⅜"x¼"
60916	DE3FW	3	R-12	⅜"x¼"
60917	DE3VW	3	R-22	⅜"x¼"
60919	DE1RW	1	R-502	⅜"x¼"
60920	DE2RW	2	R-502	⅜"x¼"
60921	DE3RW	3	R-502	⅜"x¼"

Parker Thermostatic Expansion Valve

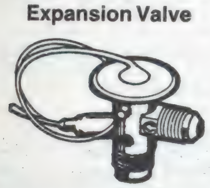


External superheat adjustment provided with ¼" SAE external equalizer.

Maximum Operating Pressure 100 PSI.

No.	Parker "S"	Cap. Ton.	Refrig.	OD Inlet	OD Outlet
61873	SE3FW	⅓-3	R-12	½"	⅞"
61874	SE5FW	⅓-5	R-12	⅝"	⅞"
61877	SE4VW	2½-4	R-22	½"	⅞"
61878	SE7½VW	5-7½	R-22	⅝"	⅞"
61881	SE3RW	⅓-3	R-502	½"	⅞"

Parker Thermostatic Expansion Valve



Internal superheat adjustment with a factory set superheat of 10° Power element charge provides evaporator temperature range of −40° F. to 50°F. Outlet ½" SAE, inlet ⅜" SAE except 60970 which is ¼" SAE.

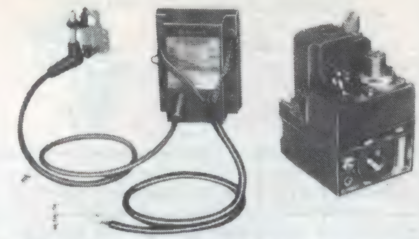
Wide Range General Purpose Valve With Liquid Cross Charged Element

No.	Parker "N"	Refrig.
60970	N¼FW	R-12
60971	N¼-½FW	R-12
60972	N1FW	R-12
60973	N2FW	R-12

SEE SEPARATE PRICE LIST

You surely have noticed there are no prices shown in this catalog. Call 312/376-3505 or the Alter location of your choice for our most current price list.

Honeywell Gas Saver Retrofit Intermittent Pilot Gas Burner Ignition System

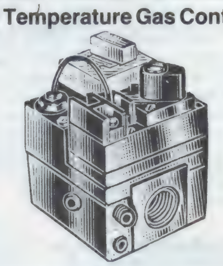


For 24-volt controls on Furnaces, Boilers, Heaters
For Natural or LP Gas — Saves 7,000 cu. ft. per year

Eliminates the fuel wasting continuous pilot light on gas heating units, providing an intermittent pilot which uses gas only when system calls for heating. Rewiring is not necessary. Model Y86 has 100% shut-off; safety and reliability assured by sensing system and dual valve seat that produces positive close-off. Supplies a capacitive discharge spark; external 3 amp. fuse protects system. Solid state igniter-sensor uses single electrode for ignition and flame sensing. Ambient rated for 32^0 to 175^0F. Consists of: Intermittent pilot electronic control module with adhesive mounting strips and prewired harness with ¼" quick-connects; YR8440M intermittent pilot, dual valve combination gas control with pressure regulator for natural gas, reducer bushings, and LP conversion kit; ground rod for addition to existing pilot; igniter-sensor for attachment to ground rod; ignition cable with installation hardware. Control module is powered by 24-volt transformer and controlled by a thermostat to perform these functions: Checks for flame or false flame condition on startup; generates 30,000 volt potential for spark ignition of pilot; opens pilot valve; discontinues spark when pilot flame is established. Safety lockout acts if pilot fails to ignite within flame establishing period. After proof of pilot flame, module opens main gas valve; if power loss occurs, control shuts down. When power is restored, new startup sequence begins. Upon loss of flame, control shuts off main valve and restarts preignition check. Electrical rating, 25 VAC, 60 Hz.; power demand 0.4 amp.; safety lockout timing. 90 secs.; max. flame failure reignition, less than 0.8 sec.; mounts in any position with adhesive strips or 4 screws (included). Dimensions of S86 approx. 5-1/8" H. x 4" W. x 1-13/16" D.; of VR844M, 5-5/ 32" H. x 4-1/8" W x 3-7/32" D. 4-13/32" swing radius. BTU capacity 290,000. Must be installed by an experienced, trained service technician. Piping must comply with local codes or National Fuel Gas Code.

No.	Model	Size
70565	Y86G1010	3/4"x3/4"

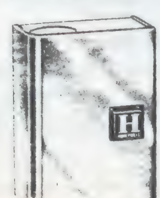
Honeywell Self Powered Valve Assembly For Automatic Temperature Gas Control System



Similar to model V800 but self powered for use with 750 millivolt pilot. Has 3/4"x3/4" inlet and outlet.

No.	VS820-	Nat. Gas Capacity BTU/Hr.	Pressure Regulator Setting
73729	A1054	335000	3.5 W.C.

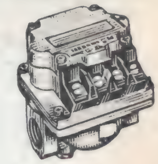
Honeywell Manual Reset Pilotstat Control



Breaks electrical circuit to prevent opening of the automatic gas control valve when the pilot flame is extinguished. Used with Q326 thermocouples. Nominal 30 Millivolt.

No.	Model
73626	C434A1013

Honeywell Powerpile Gas Valve



A diaphragm valve that operates on a 750 millivolt self powered system. Has a cast aluminum body with a 4 screw terminal and 1/8" FIPT pilot tap and 1/ 8" FIPT bleed tap with 1/4" OD tubing adapter. A small electromagnetically operated pilot valve controls the gas pressure on top of the diaphragm. When pilot valve is energized it opens the bleed port and closes the gas supply port. The gas above the diaphragm vents out the bleed port and the gas pressure below lifts the diaphragm opening the main valve. M-H VS8187A gas valve replaces VS87A and VS887A valves. For use with CS897A Powerpile generator. Flow capacity at 0.6 sp. gr. gas at 1" water column pressure drop. BTU listed for gases 800 BTU per cu. ft. or more at 1" water column press. drop. IPT connections.

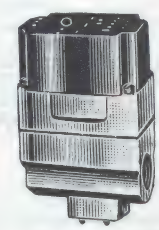
No.	VS8187A	Flow Capacity	BTU Per Hour
73506	1351	340 CFH	251600

Honeywell Powerpile Generators

These Powerpile generators provide pilot for ignition and generate 750 millivolt to operate self powered Powerpile system. Has orifice of .018 for natural gas and .011 for LP gas. Has brackets to replace PG9 and PG1 generators. Has target type, non-primary aerated, pilot burner using only secondary air. No primary air openings to be clogged with dust and lint. Tip style 20^0 left hand. Has 32" lead. Replaces old CS893 generator. For use with VS8187A gas valve.

No.	Model
73509	CS897A1013

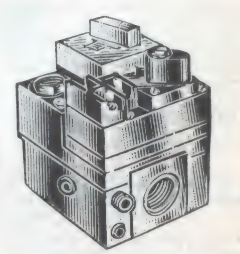
Honeywell 24 Volt Gas Valve For Automatic Control Of Gas Fired Burner



A straight through gas valve with pressure rating 1/2 PSI and with 1/8" IPT pilot gas outlet. Transformer not included and must be ordered separately if required. Thermostat heat anticipation setting 0.4 amps. 24 volt. Has 1/2"x1/2" inlet and outlet.

No.	V8202-	Nat. Gas Capacity BTU/Hr.
73731	A1018	330000

Honeywell Combination 24 Volt Gas Controls

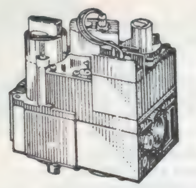


Honeywell controls for gas forced heating appliances and central furnaces, powered by 24 volt, have complete safety shut off on pilot flame failure. They have Light-Rite lighting sequence of Off, Pilot, and On. Straight through body with 1/2" plugged side outlet. Includes Pilotstat power unit, pilot flow adjustment, 1/8" IPT pressure tap with plug, and connector for 30 millivolt thermocoupler. Draws 0.2 amp current. Inlet and outlet connection have bushing for one size reduction. No. 73726 has 1/2"x3/4" inlet and outlet, and Nos. 73727 and 73728 have 3/ 4"x3/4" inlet and outlet.

No.	V800-	Nat. Gas Capacity BTU/Hr.	Pressure Regulator Setting
73726	A1070	250000	3.5 W.C.
73727	A1088	335000	3.5 W.C.
73728	B1046	335000	None

Pilot Burners

Honeywell Continuous Pilot Dual Automatic Valve Combination Gas Control



For 24-volt Heating Appliances with continuous pilot ignition systems
New dual-seated safety shut-off valve assures positive closing

Recommended for service replacement of bimetal design units. Consists of a basic automatic valve with two magnetic operators, a pressure regulator, manual gas cock, and conversion kit for using either natural or LP gas. Diaphragm-type operator requires gas pressure to open; closes if gas or power supply is interrupted. Second automatic operator is spring-loaded for positive closing. Operation controlled manually by the ON-PILOT-OFF gas cock. Automatic safety valve blocks gas flow to main burner if pilot flame goes out or becomes too small for adequate ignition. In OFF position, gas flow thru valve is mechanically blocked. Servo pressure regulation maintains constant input under wide fluctuations in gas pressure. Factory setting does not need readjustment for specific rating of furnace. Should be installed by an experienced, trained service technician. Size approx. 5-5/8"H. x 5-1/2"W. x 3-13/32"D. Ambient temperature rating: 32^0 to 175^{0}F.; pilot gas outlet compression fitting for 1/4" O.D. tubing; 24 VAC operation. U.L. component recognized, A.G.A. design certified. 1/2" x 3/8" reducer included.

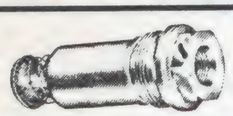
Settings for Outlet Pressure to Burner

Gas Type	Fact. Setting Inches WC	Inlet Outlet Size In.	Range of Optional Settings/Adjustment Inches WC	kPa
Natural	3.5	1/2x3/4	3 to 5	0.5 to 1.2
LP	11.0	3/4x3/4	8 to 12	2.0 to 3.0

No.	VR800A	Capacity per Hr. Cut. Ft.	m³In.	Regular Setting In. WC	kPa
70566	1061	225	6.4	3.5	0.87
70567	1079	250	7.1	3.5	0.87

Pilot Line Tube with Captive Ferrule

No.	Model No.	Control Nut for Thermostats
73771	81LC	O.D. 1/4"



Replacement Power Units

No.	Replacement For:	
73350	Pilot Safety Controls	CS5281
	Man. Comb. Gas Controls	CS5290
	Powerpile Comb. Gas Controls	VS8194
73351	Pilot Safety Controls	C5281
	Man. Comb. Gas Controls	C5193, C5290
	Bulb Type Comb. Gas Controls	V5267, V5269, V5272
	Low Volt Comb. Gas Controls	V8277
73352	Man. Comb. Gas Controls	V800, V801, V400, V401, V811
	Automatic Comb. Gas Control	VR800
73353	Automatic Comb. Gas Controls	C580, V801, V400, V401, V811, VR800
	Man. Comb. Gas Controls	CS580, CS581
	Automatic Comb. Gas Controls	VS820, VS821

Pilot Burner Q303B

Primary-aerated, multiport, spud orifice type pilot burner. Use for main burner ignition with Q309 or Q340 Thermocouple for Pilotstat safety control operation. Use Nat. or L.P. gas orifice incl. Mounting bracket B used.



Number	Tip Style	Type of Gas	Mounting Bracket
73357		Nat., LP	B

Includes Nat. gas orifice; LP gas orifice; 1/ 4 in. cc inlet fitting mounting bracket adapter with screws.

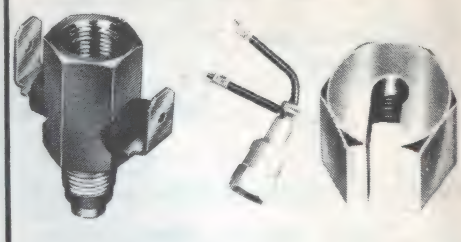
Pilot Burner Q3277 A

Nonprimary-arrated spud orfice type pilot burner.
Use for main burner ignition with Q309, Q340 thermocouple or Q310, Q313 thermoplile for Pilostat safety control operation. Target span 1". Use natural or L.P. gas orfice and 1/ 4" cc inlet fitting. Mounting bracket B.



Order Number	Tip Style	Type of Gas	Mounting Bracket	Includes
*Q327A1626 **73380**	1 in. (25.4 mm) span	Nat., LP	B	Nat. Gas Orfice; LP gas orfice; 1/4 in. cc inlet fitting.

Gas Pilot Safety Systems Accessories



No.	Description
73388	Adapter
73387	Thermocouple Terminal Adapter
73381	Power Unit Female Adapter

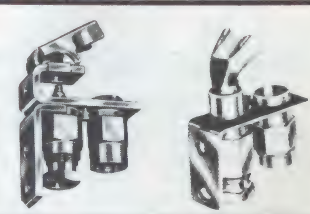
Powerpile Pilot Burner Generators

Provide pilot for ignition of main burner and generate 750 mV to operate self-powered, gas heating control system.

Order Number	Description	Type of Gas	Standard Lead Length in.	m	Mounting Bracket	Includes
*CS82A1131 73382	Nonprimary-aerated	Nat., LP	45	1.1	Standard	LP gas orifice fitting; bleed tube kit, "T" type mounting bracket
*CS893B1106 73383	Spud type, primary-aerated, single port.	Nat., LP	35	0.9	B	LP gas orifice fitting.
*CS894D1101 73384	Spud type, primary-aerated multiport	Nat., LP	35	0.9	D	LP gas orifice fitting; special adapter to convert to "A" bracket; 1/8 NPT to 1/4 OD tube adapter.
*CS894D1127 73385	Spud type, primary-aerated, multiport	Nat., LP	35	0.9	D	
*CS897A1039 73386	Insert orifice type, nonprimary-aerated.	Nat., LP	35	0.9	D	1/8 NPT female fitting adapter, replacement connector nut for inlet fitting.

Pilot Burners Q308A, Q814A

Nonprimary-aerated insert orifice type pilot burner.
Use Q308 or Q314 for main burner ignition with Q340 thermocouple for Pilotstat safety control operation. For 750 mV Powerpile application, use Q314 with Q313 generator.

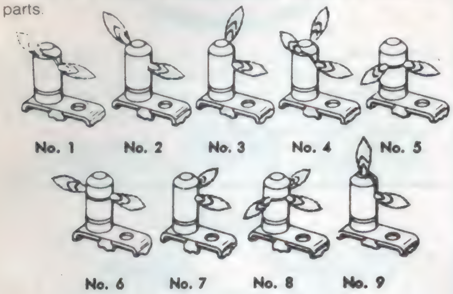


Order Number	Type of Gas	Mounting Bracket	Includes
Q308A1386 **73359**	Nat., But-Air	A	1/4 in. cc inlet fitting.
Q308A1881 **73358**	Nat., LP	B	Nat. Gas orfice; LP gas orfice; 1/4 in. cc inlet fitting; special mounting bracket with screws for converting "B" Bracket.
*Q314A3547 **73366**	Nat.	A	1/4 in. cc inlet fitting.
*Q314A4586 **73367**	Nat., LP	B	Nat. Gas orfice; LP gas orfice; 1/4 in. cc inlet fitting; special mounting bracket with screws for converting "B" Bracket.
*Q314A6094 **73368**	Nat., LP	B	
*Q314A6102 **73369**	Nat., LP	B	

SEE SEPARATE PRICE LIST

J Series Combination Type Pilot Burners

Universal replacement pilot burner for J10 (-) DDA, J11 (-) DDA (D10 & D11) types. Contains two inlet fittings and necessary parts.



No.	Tip Position
73048	1
73049	2
73050	3
73051	4
73052	5
73053	6
73054	7
73055	8
73056	9

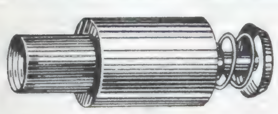
J Series Multi-Mount Universal Pilot Burner



Lint free, non aerated; mounting bracket on all 4 sides; natural and LPG orifice supplied; necessary hardware incl.

No.	Type of Pilot
73057	"L" channel
73058	Shell
73059	"Y" channel

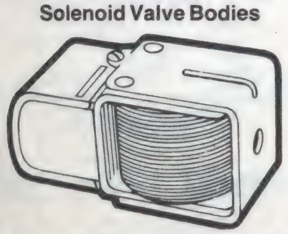
Honeywell Thermocouple Tester



Pocket-size, lightweight test cell provides quick, visible evidence of thermocouple output. Indication of proper thermocouple operation is unmistakable. To test, remove threaded end of thermocouple and screw it into hex end of tester. Using a lighter to heat the thermocouple sensor, press the pushbutton IN. If button stays IN while sensor is hot, thermocouple is OK; if button pops OUT as soon as pressure is released (sensor still hot), thermocouple is defective. Size: 2-1/ 4" long, 3/4" wide at hex end, which is threaded to receive terminal of thermocouple.

No.	Thermocouple Tester
73461	MH 394530

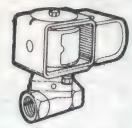
R Coil Assemblies For RB Solenoid Valve Bodies



Epoxy resin completely encloses the coil and lead wire junction assembly. Waterproof and impervious to oil, dust, frost, and corrosive vapors. Used with all types of RB bodies, 11 watt, 50/ 60 HZ.

No.	Voltage
19933	24
19934	110-220
19935	208-240
19936	110/220-208/240

Refrigerant Valve J-E Solenoid Valve With Direct Action Plunger Type RB

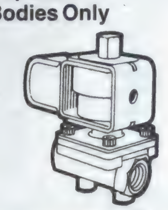


Operates smoothly at differential pressures up to 300 lbs. and temperatures from -20° to 240°F. Used for R-12 or R-22 refrigerants, air, water, light oils, and other non-corrosive liquids. Forged brass body with 7/ 64" dia. port and FIPT connections. Normally closed. Capacity of .5 GPM at 5 lb. and .7 GPM at 10 lb. water . Valve bodies are puchased separately. Be sure to purchase the proper voltage coil and housing to make a complete solenoid valve.

Valve Body only with 7/64 port R12 Liquid Capacity 0.8 Ton

No.	J-E No. RB	Connection
19900	1P2	1/4" FIPT
19901	1P3	3/8" FIPT
19902	1S2	1/4" and 3/8" ODS
19903	1F2	1/4" SAE

J-E Normally Opened Solenoid Valve Bodies Only



These valves are used for R-12, R-22 refrigerants, LP gas, water, brine, and light oils where a normally opened valve is needed to close when energized. Similar in construction and appearance to the standard valve. Ideal for "fail-safe" operations where valve must remain open when current fails or when current is turned off. Max. opening pressure diff. Valve bodies are purchased separately. Be sure to purchase the proper voltage coil and housing to make a complete solenoid valve.

Normally Open Pilot Operated Teflon Diaphragm Valve Body Only

No.	JE-ORB	Port	Size FIPT
19972	3P2	1/4"	1/4"
19973	3P3	1/4"	3/8"
19974	41P8	1"	1"

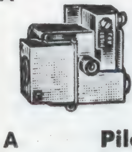
Electrical Coil and Housing Only For Normally Open Valve Body

These coils fit the normally open valve bodies shown above and must be purchased separately to make a complete solenoid valve. Coils are sealed in waterproof epoxy and are guaranteed for 5 years from date of manufacture. Rates 11 watts. 50/60HZ.

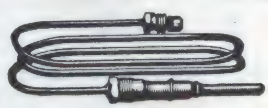
No.	Voltage
19975	24
19976	110-120
19977	208-240

Honeywell Pilotstats And Thermocouples

A



B



A Pilotstat Switch C591A

A wall mounted Pilotstat electric switch that opens the electric control circuit for safety shutdown of gas flow to the main burner and pilot gas shut off. An internal spring closes the pilot gas valve and opens the contacts to break the circuit. Has 1/4" OD tube fittings for pilot gas supply. Thermocouples purchased separately. No. 70430 M-H C591A Tradeline replaces C434A and C418A.

70430	M-H C591A 1036

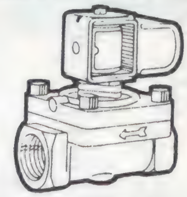
B Honeywell Universal

Thermocouples Q340 Each thermocouple package has 5 fittings which adapt this thermocouple to fit most pilot burner applications. Replaces thermocouples made by M-H as well as most made by Baso, Robertshaw, and General. Capillary element may be coiled when replacing shorter elements. Q340 Tradeline replaces old model Q235, Q300, and Q309, Q326.

No.	Q340A	Long
70539	1066	18"
70431	1074	24"
70364	1090	36"
70365	1108	48"
70432	1116	72"

General Purpose Valves

J-E Industrial Pilot Operated Diaphragm Solenoid Valves Type GP



Low cost simple construction for water, air, light oils, LP gases or other noncorrosive liquids. Pilot operated with fiberglass reinforced diaphragm that opens to full port at 1 PSI. May be disassembled for repairs or cleaning. Max. operating press. 200 PSI with max. operating differential 150 PSI. Normally closed. Body forged brass with integral brass seat. Coils completely sealed in epoxy resin are water and oil proof and impervious to many corrosive fumes. Has junction box housing. Valve bodies are purchased separately.

No.	J-E No. GP	Port Size	Size FIPT
Forged Brass Body Only With Max. Temp. 240F Reinforced Teflon Diaphragm			
19940	2	5/16"	1/4"
19941	3	1/2"	3/8"
19942	4	1/2"	1/2"
19943	6	3/4"	3/4"
Forged Brass Body Only with Max. Temp 225 F Bunz "N" Reinforced Diaphragm			
19944	200	5/16"	1/4"
19945	300	1/2"	3/8"
19946	400	1/2"	1/2"
19947	600	3/4"	3/4"
Cast Bronze Body Only Same as Above			
19948	10	1"	1"
19949	12	1-1/4"	1-1/4"
19950	14	1-1/2"	1-1/2"
19951	20	2"	2"
Forged Brass Body Only With Stainless Steel Seat Inserts Teflon Coated Fiberglass Diaphragm, Max. Temp. 240 F			
19955	307	1/2"	3/8"
19956	407	1/2"	1/2"
19957	607	3/4"	3/4"

G Coil Assemblies Only For GP Industrial Solenoid Valve Bodies

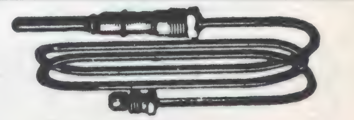
A special epoxy resin completely encloses the coil and the lead-junction assembly. Absolutely waterproof and impervious to oil, dust, frost and many corrosive vapors. Used with all the type GP bodies. 50-60HZ.

No.	Voltage
19958	24
19959	110-120
19960	208-240
19961	110/120 & 208/240

Forged Brass Bodies For Steam Service To 50 PSI Type GP

Forged brass bodies only with stainless steel seat inserts and a reinforced ethylene propylene diaphragm. Will handle up to 300°F fluid temperatures at a working pressure of 50 PSI and a max. operating pressure differential from one to 50 PSI.

No.	J-E No. GP	Port Size	Size FIPT
19962	257	5/16"	1/4"
19963	357	1/2"	3/8"
19964	457	1/2"	1/2"
19965	657	3/4"	3/4"
Cast Bronze Body Only For Fluid Temp. to 300°F with Reinforced Ethylene Propylene Diaphragm.			
19966	1057	1"	1"
19967	1257	1-1/4"	1-1/4"
19968	1457	1-1/2"	1-1/2"



Penn Thermocouples

No.	Length Husky	No.	Length Slim Jim
73030	18"	**73036**	18"
73031	24"	**73001**	24"
73032	30"	**73037**	30"
73000	36"	**73002**	36"
73033	48"	**73038**	48"
73034	60"	**73039**	60"
73035	72"	**73040**	72"

SEE SEPARATE PRICE LIST

Copper Tubing/Solenoid Valves/PVC

Hard Copper Tubing



Hard copper tubing made to A.S.T.M. and Federal Government specifications for refrigeration, plumbing and heating lines.

Comparison	
OD Size	Nominal Pipe Size
3/8"	1/4"
1/2"	3/8"
5/8"	1/2"
3/4"	—
7/8"	3/4"
1 1/8"	1"

Type "K" Tubing

For refrigeration, plumbing, heating, and underground use; heavy duty.

10 Ft. Long No.	20 Ft. Long No.	O.D.	Wall Thick	Wt. Per Ft. Lb.
7000	**7050**	3/8"	.035	.145
7001	**7051**	1/2"	.049	.269
7002	**7052**	5/8"	.049	.344
7003	**7053**	3/4"	.049	.418
7004	**7054**	7/8"	.065	.641
7005	**7055**	1 1/8"	.065	.839
7006	**7056**	1 3/8"	.065	1.04
7007	**7057**	1 5/8"	.072	1.36
7008	**7058**	2 1/8"	.083	2.06
7009	**7059**	2 5/8"	.095	2.93
7060A	**7060**	3 1/8"	.109	4.00

Type "L" A.C.R. Tubing

For interior plumbing and heating.

10 Ft. Long No.	20 Ft. Long No.	O.D.	Wall Thick	Wt. Per Ft. Lb.
7021	**7061**	1/2"	.035	.198
7022	**7062**	5/8"	.040	.285
7023	**7063**	3/4"	.042	.362
7024	**7064**	7/8"	.045	.465
7025	**7065**	1 1/8"	.050	.655
7026	**7066**	1 3/8"	.055	.884
7027	**7067**	1 5/8"	.060	1.114
7028	**7068**	2 1/8"	.070	1.75
7029	**7069**	2 5/8"	.080	2.48

Type "M" Tubing

For waste vents, water, drainage; light duty.

7041	**7071**	1/2"	.025	.145
7042	**7072**	5/8"	.028	.204
7044	**7074**	7/8"	.032	.328
7045	**7075**	1 1/8"	.035	.465

Refrigeration Dehydrated And Sealed Soft Copper Tubing

Tubing made in the wall thickness recommended by the Copper and Brass Research Assoc., properly annealed to the right temper for flaring.

50 Foot Coils

No.	OD Size	Wall Thick	Approx. Wt.
8127	1/8"	.030"	1.74 lbs.
8110	3/16"	.030"	2.88 lbs.
8111R	1/4"	.030"	4.02 lbs.
8112R	5/16"	.032"	5.45 lbs.
8113R	3/8"	.032"	6.70 lbs.
8115R	1/2"	.032"	9.10 lbs.
8156R	5/8"	.035"	12.55 lbs.
8157R	3/4"	.035"	15.20 lbs.
8159R	7/8"	.045"	22.75 lbs.
8160R	1 1/8"	.050"	32.75 lbs.
8162R	1 3/8"	.055"	44.20 lbs.

Capillary Tubing

100 ft. lengths

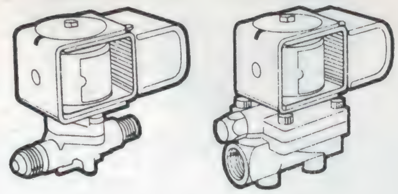
No.	ID	OD	No.	ID	OD
8100	.026"	.072"	**8149**	.055"	.125"
8101	.031"	.083"	**8188**	.064"	.125"
8178	.036"	.087"	**8189**	.070"	.125"
8128	.044"	.109"	**8192**	.080"	.145"
8129	.050"	.114"			

Type K Soft Copper Tubing

60 ft. Coils

No.	OD	No.	OD
8164R	5/8"	**8168R**	7/8"
8167R	3/4"	**8169R**	1-1/8"

J-E Pilot Operated Solenoid Valve Type RB Bodies Only



Teflon floating diaphragm seat that operates at pressure differential from 1 to 300 lbs. always giving maximum fluid flow and smooth dependable action. Forged brass bodies that disassembles for cleaning or service without removing the body from the line. Epoxy clad coils are waterproof. All coils and parts are replaceable. For R-12 or R-22, water, air, light oil, etc. R-12 liquid capacities shown at 2 PSI pressure diff. For R-22 refrigerant and water capacities see table of capacities. Normally Closed. For -20^0 to 240^{0}F. temperatures. Valve bodies are purchased separately. Be sure to purchase the proper voltage coils and housing to make a complete solenoid valve. Valve Body only 1/4" Port R-12 Liq. Cap. 3 Tons

No.	J.E. No. RB	Connections
19903	1F2	1/4" FIPT
19904	3P2	1/4" FIPT
19905	3P3	3/8" FIPT
19906	3S3	3/8" and 1/2" ODS
19907	3S4	1/2" and 5/8" ODS
19908	3F2	1/4" SAE
19909	3F3	3/8" SAE
Valve Body only 11/32" Port R-12 Liq. Cap. 5 Tons		
19910	5P3	3/8" FIPT
19911	5S4	1/2" and 5/8" ODS
19912	5F3	3/8" SAE
Valve Body only 15/32" Port R-12 Liq. Cap.		
19913	9P3	3/8" FIPT
19915	9S4	1/2" and 5/8" ODS
19916	9S5	5/8" and 7/8" ODS
19917	9F5	5/8" SAE
Valve Body only 15/32" Port with Manual Opener		
19918	9MP3	3/8" FIPT
19919	9MS4	1/2" and 5/8" ODS
19920	9MS5	5/8" and 7/8" ODS
Valve Body only 9/16" Port R-12 Liq. Cap. 14.5 Tons		
19921	15P4	1/2" FIPT
19922	15S5	5/8" and 7/8" ODS
Valve Body Only 9/16" Port With Manual Opener		
19923	15MP4	1/2" FIPT
19924	15MS5	5/8" and 7/8" ODS
Valve Body Only 7/8" Port R-12 Liq. Cap. 21 Tons		
19925	21P6	3/4" FIPT
19926	21S7	7/8" and 1-1/8" ODS
Valve Body only 7/8" Port with Manual Opener		
19927	21MP6	3/4" FIPT
19928	21MS7	7/8" and 1-1/8" ODS
Valve Body Only 1" Port R-12 Liq. Cap. 41 Tons		
19930	41S9	1-1/8" and 1-3/8" ODS
Valve Body Only 1" Port with Manual Opener		
19931	41MP8	1" FIPT
19932	41MS9	1-1/8" and 1-3/8" ODS

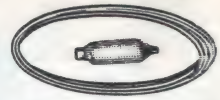
Plastic Tube Rack



Holds up to 10 tubes.

No.	Size	No.	Size
5191	For 1/4" Tubes	**5198**	For 3/8" Tubes

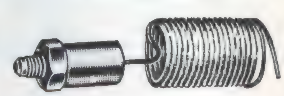
Strain-O-Kap



For hermetic units from 1/3 HP to 1 HP, for all temperature operations using either R-12 or R-22 refrigerants. Inc. 5/8" OD strainer with 60-80-100 monel screens. Has 1/8" cap. outlet, 3/8" inlet with busing for 5/16" and 1/4" inlet. Has separate 1/8" hard drawn cap. tube 42" long. .075 ID.

1465 Complete Kit With Cap. Tube and Instructions Each

Strain-O-Kap



Combination strainer and capillary has 3 monel screens. For refrigeration units 1/20 to 1/5 HP, water coolers to 1/4 HP, and freezers 1/4 to 1/3 HP. Incl. 7-1/2 ft. cap tube.

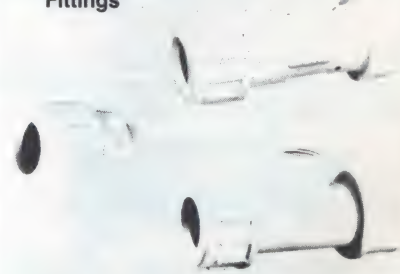
No.	Fitting	No.	Fitting
2351	1/4" SAE	**2352**	1/4" OD

Polyvinyl Drain Tube



No.	ID	Ft. Per Reel	No.	ID	Ft. Per Reel
49346T	1/4"	100 Ft.	**49337T**	5/8"	100 Ft.
49335T	3/8"	100 Ft.	**49398T**	3/4"	100 Ft.
49336T	1/2"	100 Ft.	**49339T**	7/8"	50 Ft.

PVC Compression Fittings



Iron Pipe Size PVC Compression Fittings

Couplings

No.	IPS Size	Length	PSI	Fig.
22350	1/2"	4"	600	A
22351	3/4"	4-1/4"	480	A

Threaded Tee

No.	IPS Size	IPS Branch	Length	Fig.
22352	1/2"	1/2" FIPT	4"	B
22353	3/4"	3/4" FIPT	4-1/4"	B

Male Adapter

No.	IPS Size	IPS Conn.	Fig.
22354	1/2"	1/2" MIPT	C
22355	3/4"	3/4" MIPT	C

Tube Connectors

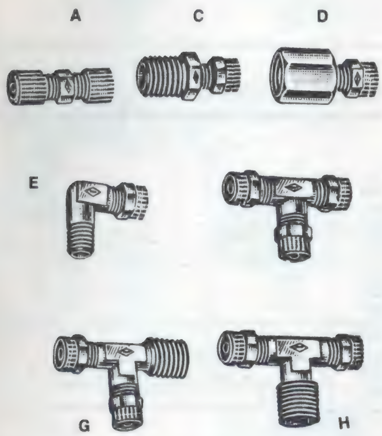


Use with aluminum to copper, copper to copper, or aluminum to aluminum in 3/16", 1/4", 5/16" and 3/8" O.D. tubing.

No.	Description O.D.-I.D.	No.	Description O.D.-I.D.
1585	3/16" x 3/16"	**1587**	5/16" x 5/16"
1586	1/4" x 1/4"	**1588**	3/8" x 3/8"

SEE SEPARATE PRICE LIST

Poly-Flo Tube Fittings and Plastic Tubing



One Connection For 1/4" Plastic Tube

No.	Fig.	Other Connections
5170	A	1/4" Plastic Tube Standard Compression
5172	C	1/8" Male IPT
5173	C	1/4" Male IPT
5174	D	1/8" Fem. IPT
5175	D	1/4" Fem. IPT
5176	E	1/8" Male IPT Ell
5177	E	1/4" Male IPT Ell
5178	F	1/4" x 1/4" Plastic Tube
5179	G	1/8" Male IPT On Run
5180	G	1/4" Male IPT On Run
5181	H	1/8" Male IPT On Branch
5182	H	1/4" Male IPT On Branch

No.	Description	No.	Description
5183	1/4" Plastic Sleeve	5184	1/4" Nut & Sleeve

Sold Only in 100 Ft. Rolls
1/4" Plastic Polyethylene Tubing 125 Lb. Working Pressure

No.	Color	No.	Color
5185	Natural	5186	Black

One Connection For 3/8" Plastic Tubing

No.	Fig.	Other Connections
5200	A	3/8" Plastic Tube
5201		Standard Compression
5202	C	1/8" Male IPT
5203	C	1/4" Male IPT
5204	C	3/8" Male IPT
5205	D	1/4" Fem. IPT
5206	E	1/8" Male IPT Ell
5207	E	1/4" Male IPT Ell
5208	E	3/8" Male IPT Ell
5209	F	3/8" x 3/8" Plastic Tube

One Connection For 3/8" Plastic Tube

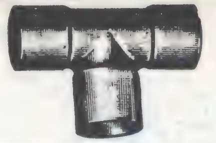
No.	Fig.	Other Connections
5210	G	1/4" MIPT On Run
5211	H	1/8" MIPT On Branch
5212	H	1/4" MIPT On Branch

No.	Description	No.	Description
5213	3/8" Plastic Sleeve	5214	3/8" Plastic Nut

Sold Only in 100 Ft. Coils
3/8" Plastic Polyethylene Tubing 100 Lb. Working Pressure

No.	Color	No.	Color
5192	Natural	5193	Black

Solder Tee



No.	OD Tubing	No.	OD Tubing
11328	1/8"	6327	3/4"
11599	3/16"	6328	7/8"
11511	1/4"	6329	1-1/8"
11565	5/16"	6376	1-3/8"
6323	3/8"	6377	1-5/8"
6325	1/2"	6378	2-1/8"
6326	5/8"	11547	2-5/8"

Tee Branch End Smaller



No.	OD Run	OD Branch	No.	OD Run	OD Branch
11566	5/16"	1/4"	6335	7/8"	1/2"
11502	3/8"	1/4"	6336	7/8"	5/8"
11503	1/2"	1/4"	6342	7/8"	3/4"
6330	1/2"	3/8"	6338	1-1/8"	5/8"
6331	5/8"	3/8"	6343	1-1/8"	3/4"
6332	5/8"	1/2"	6339	1-1/8"	7/8"
6334	3/4"	3/8"	6350	1-3/8"	5/8"
6340	3/4"	1/2"	6353	1-5/8"	5/8"
6341	3/4"	5/8"			

Reduction Tee



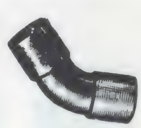
No.	OD Run	OD Branch
11420	5/8"x1/2"	1/2"
11421	5/8"x1/2"	5/8"
11422	7/8"x5/8"	5/8"
11423	7/8"x5/8"	7/8"
11424	1-1/8"x5/8"	5/8"

Tee Branch End Larger



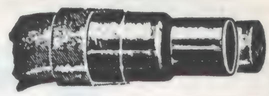
No.	OD Tubing	OD Branch
11350	1/4"	3/8"
11352	3/8"	1/2"
11351	3/8"	5/8"
11405	1/2"	5/8"
6333	5/8"	7/8"
11407	7/8"	1-1/8"
11352	5/8"	1-1/8"

45° Solder Elbows



No.	OD Tubing	No.	OD Tubing
11411	3/8"	11416	1-1/8"
11412	1/2"	11417	1-3/8"
11413	5/8"	11418	1-5/8"
11414	3/4"	11419	2-1/8"
11415	7/8"	11529	2-5/8"

Reducing Bushing



No.	Fitting	OD Tube	No.	Fitting	OD Tube
11597	1/4"	1/8"	5932	1-3/8"	5/8"
11448	3/8"	1/4"	5933	1-3/8"	7/8"
11449	1/2"	1/4"	5934	1-3/8"	1-1/8"
5920	1/2"	3/8"	5935	1-5/8"	5/8"
5921	5/8"	3/8"	5936	1-5/8"	7/8"
5922	5/8"	1/2"	5937	1-5/8"	1-1/8"
5923	3/4"	3/8"	5938	1-5/8"	1-3/8"
5924	3/4"	1/2"	5939	2-1/8"	5/8"
5925	3/4"	5/8"	5940	2-1/8"	7/8"
5926	7/8"	1/2"	5941	2-1/8"	1-1/8"
5927	7/8"	5/8"	5942	2-1/8"	1-3/8"
5928	7/8"	3/4"	5943	2-1/8"	1-5/8"
5929	1-1/8"	1/2"	11521	2-5/8"	2-1/8"
5930	1-1/8"	5/8"			
11549	1-1/8"	3/4"			
5931	1-1/8"	7/8"			

Solder Elbows



No.	OD Tubing	No.	OD Tubing
6223	3/8"	6229	1-1/8"
6225	1/2"	6248	1-3/8"
6226	5/8"	6249	1-5/8"
6227	3/4"	6250	2-1/8"
6228	7/8"	11595	2-5/8"

90° Long Radius

No.	OD Tubing	No.	OD Tubing
11380	3/16"	11554	3/4"
11550	1/4"	11555	7/8"
11381	5/16"	11556	1-1/8"
11551	3/8"	11557	1-3/8"
11552	1/2"	11558	1-5/8"
11553	5/8"	11559	2-1/8"

Reduction Elbow

No.	OD to OD		No.	OD to OD	
11507	3/8"	1/4"	6252	1-1/8"	5/8"
6230	1/2"	3/8"	6239	1-1/8"	7/8"
6231	5/8"	3/8"	6269	1-5/8"	1-1/8"
6232	5/8"	1/2"	11598	1-5/8"	1-3/8"
6236	7/8"	5/8"			

Return Bends



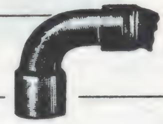
No.	OD Tube	Centers
11397	3/8"	1-1/2"
11471	1/2"	1-1/2"
11477	5/8"	2"
11398	5/8"	2-1/2"
11399	3/4"	2"
11482	3/4"	2-1/4"
11396	7/8"	2-1/2"

SEE SEPARATE PRICE LIST

You surely have noticed there are no prices shown in this catalog. Call the Alter location of your choice for our most current price list.

Street Elbow

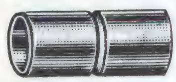
No.	OD Tubing
11451	1/2"
11452	5/8"
11567	7/8"
11591	1-1/8"
11592	1-3/8"
11593	1-5/8"
11594	2-1/8"



90° Long Radius Street Elbows

No.	OD Tubing	No.	OD Tubing
11450	3/8"	11456	1-3/8"
11590	5/8"	11457	1-5/8"
11453	3/4"	11458	2-1/8"
11454	7/8"	11531	2-5/8"
11455	1-1/8"		

Solder Coupling



No.	For OD Tube	No.	For OD Tube
11400	1/8"		
11462	3/16"		
11447	1/4"		
11514	5/16"		
6203	3/8"		
6205	1/2"		
6206	5/8"	6200	1-3/8"
6207	3/4"	6201	1-5/8"
6208	7/8"	6202	2-1/8"
6209	1-1/8"	11533	2-5/8"

Reducing Coupling

No.	OD Tube	OD Tube	No.	OD Tube	OD Tube
11562	1/4"	3/16"	6218	1-1/8"	5/8"
11563	5/16"	1/4"	6219	1-1/8'	7/8"
11508	3/8"	1/4"	6220	1-3/8"	5/8"
11564	3/8"	5/16"	6221	1-3/8"	7/8"
11509	1/2"	1/4"	6222	1-3/8"	1-1/8"
6210	1/2"	3/8"	6224	1-5/8"	5/8"
6211	5/8"	3/8"	6235	1-5/8"	7/8"
6212	5/8"	1/2"	6237	1-5/8"	1-1/8"
6233	3/4"	3/8"	6238	1-5/8"	1-3/8"
6213	3/4"	1/2"	6241	2-1/8"	5/8"
6214	3/4"	5/8"	6242	2-1/8"	7/8"
6215	7/8"	1/2"	6244	2-1/8"	1-1/8"
6216	7/8"	5/8"	6245	2-1/8"	1-3/8"
6234	7/8"	3/4"	6246	2-1/8"	1-5/8"
6217	1-1/8"	1/2"	11538	2-5/8"	2-1/8"

Solder Tubing Caps



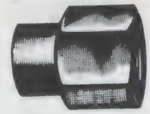
No.	OD Tubing	No.	OD Tubing
11580	1/4"		
11581	3/8"		
11582	1/2"		
11583	5/8"		
11584	3/4"	11587	1-3/8"
11585	7/8"	11588	1-5/8"
11586	1-1/8"	11589	2-1/8"

P-Traps



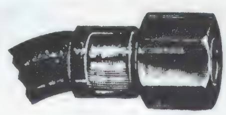
No.	Line	Wide	High
11347	7/8" OD	7-9/16"	7-11/16"
11348	1-1/8" OD	8-3/8"	9"
11349	1-3/8" OD	11-3/4"	10-3/4"

Solder Adapter To Female Pipe



No.	OD Tube	Fem. IPT	No.	OD Tube	Fem. IPT
11504	1/4"	1/8"			
6280	3/8"	1/4"			
6282	1/2"	1/4"			
6283	1/2"	3/8"			
6284	1/2"	1/2"			
6285	1/2"	3/4"			
6286	5/8"	3/8"	6295	7/8"	1"
6287	5/8"	1/2"	6297	1-1/8"	3/4"
6288	5/8"	3/4"	6298	1-1/8"	1"
6279	3/4"	3/4"	6384	1-3/8"	1-1/4"
6293	7/8"	1/2"	6389	1-5/8"	1-1/2"
6294	7/8"	3/4"	6393	2-1/8"	2"

Solder Adapter to Female Pipe



No.	OD Tube	Fem. IPT
11576	1/2"	3/8"
11577	5/8"	1/2"
11578	7/8"	3/4"
11579	1-1/8"	1"

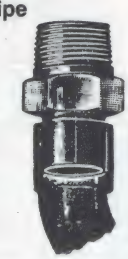
Solder Adapter To Male Pipe



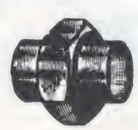
No.	OD Tube	Male IPT	No.	OD Tube	Male IPT
11512	1/4"	1/8"	6314	7/8"	3/4"
11513	1/4"	1/4"	6315	7/8"	1"
6300	3/8"	1/4"	6317	1-1/8"	3/4"
6301	3/8"	3/8"	6318	1-1/8"	1"
6302	1/2"	1/4"	6319	1-1/8"	1-1/4"
6303	1/2"	3/8"	6322	1'3/8"	1"
6304	1/2"	1/2"	6362	1-3/8"	1-1/4"
6305	1/2"	3/4"	6363	1-3/8"	1-1/2"
6306	5/8"	3/8"	6367	1-5/8"	1-1/2"
6307	5/8"	1/2"	6371	2-1/8"	2"
6308	5/8"	3/4"			
6360	5/8"	1"			
6310	3/4"	1/2"			
6311	3/4"	3/4"			
6313	7/8"	1/2"			

Solder Adapter To Male Pipe

No.	OD Tube	Male IPT
11568	1/4"	1/8"
11569	3/8"	1/4"
11570	1/2"	3/8"
11571	1/2"	1/2"
11572	5/8"	3/8"
11573	5/8"	1/2"
11574	7/8"	3/4"
11575	1-1/8"	1"



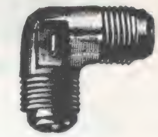
Solder Union



No.	OD Tubing
11487	5/8"
11488	7/8"
11489	1-1/8"

Forged Brass Elbow SAE Flare

No.	SAE
3360	3/16"
3361	1/4"
3362	5/16"
3363	3/8"
3365	1/2"
3366	5/8"
3367	3/4"



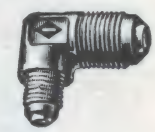
Half Elbow SAE Flare To Male Pipe Thread



No.	SAE	IPT	No.	SAE	IPT
3420	3/16"	1/8"			
3421	1/4"	1/8"			
3422	1/4"	1/4"			
3423	1/4"	3/8"	3431	1/2"	1/4"
3424	5/16"	1/8"	3432	1/2"	3/8"
3425	5/16"	1/4"	3433	1/2"	1/2"
3426	5/16"	3/8"	5424	1/2"	3/4"
3427	3/8"	1/8"	3434	5/8"	3/8"
3428	3/8"	1/4"	3435	5/8"	1/2"
3429	3/8"	3/8"	3438	5/8"	3/4"
5421	3/8"	1/2"	3436	3/4"	1/2"

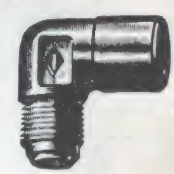
Reducing Elbow SAE Flare

No.	SAE	Reduced SAE
3531	3/8"	1/4"
3535	1/2"	3/8"
3537	5/8"	1/2"
3539	3/4"	5/8"



Half Elbow SAE Flare To Female Pipe Thread

No.	SAE	Female IPT
3501	1/4"	1/8"
3502	1/4"	1/4"
3508	3/8"	1/4"
3509	3/8"	3/8"
3512	1/2"	3/8"
3513	1/2"	1/2"



Swivel SAE Nut to SAE Elbow

No.	Size
4205	3/8"
4206	1/2"
4207	5/8"



Brass Pipe Nipples

No.	IPT	Length
15155	1/8"	1-1/2"
15156	1/4"	1-1/2"
15157	3/8"	1-1/2"
15158	1/2"	1-1/2"
15159	1/8"	2"
15160	1/4"	2"
15161	3/8"	2"
15162	1/2"	2"
15164	1/4"	3"
15165	3/8"	3"
15166	1/2"	3"



Brass Close Nipple

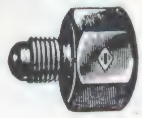
No.	IPT
15125	1/8"
15126	1/4"
15127	3/8"
15128	1/2"



SEE SEPARATE PRICE LIST

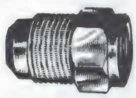
Forged Reducer SAE Flare Female End Larger

No.	Female SAE	Male SAE
3560	5/16"	1/4"
3561	3/8"	1/4"
3562	3/8"	5/16"
3564	1/2"	1/4"
3565	1/2"	3/8"
3567	5/8"	1/2"
3569	3/4"	5/8"



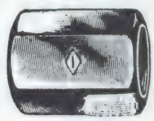
Forged Reducer SAE Flare Male End Larger

No.		
3571	1/4"	3/8"
3574	1/4"	1/2"
5574	5/16"	3/8"
3575	3/8"	1/2"
3577	1/2"	5/8"
3578	1/2"	3/4"
3579	5/8"	3/4"



Connector With Female SAE Flare Both Ends

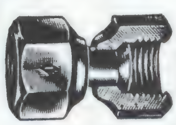
No.	SAE
3371	1/4"
3373	3/8"
3375	1/2"
3376	5/8"
3377	3/4"



¼" Female SAE to Female IPT

No.	FIPT
3378	1/8"
3379	1/4"

Manifold Union Coupling With Female SAE Flare Both Ends



No.	
3591	1/4"
3592	5/16"
3593	3/8"
3595	1/2"
3596	5/8"

Approved Safety Plugs

No.	IPT
3887	1/8"
3888	1/4"
3889	3/8"



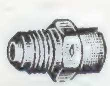
Forged Cross SAE Flare



No.	SAE
3351	1/4"
3353	3/8"

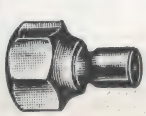
Half Union SAE to OD Solder

No.	SAE	OD
4200	1/4"	1/4"
4201	1/4"	3/8"
4202	3/8"	3/8"
4203	3/8"	1/2"
4204	1/2"	1/2"



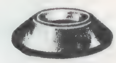
Swivel SAE Nut to OD Solder

No.	Size
4208	1/4"
4209	3/8"
4210	1/2"
4211	5/8"



Copper flare Gaskets

No.	SAE
16970	1/4"
16971	3/8"
16972	1/2"
16973	5/8"
16974	3/4"



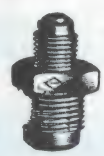
Half Union SAE Flare To Male Pipe Thread

No.	SAE	IPT
3400	3/16"	1/8"
3401	1/4"	1/8"
3402	1/4"	1/4"
3403	1/4"	3/8"
5400	1/4"	1/2"
3404	5/16"	1/8"
3405	5/16"	1/4"
3406	5/16"	3/8"
3407	3/8"	1/8"
3408	3/8"	1/4"
3409	3/8"	3/8"
5401	3/8"	1/2"
3411	1/2"	1/4"
3412	1/2"	3/8"
3413	1/2"	1/2"
5404	1/2"	3/4"
5405	5/8"	1/4"
3414	5/8"	3/8"
3415	5/8"	1/2"
3418	5/8"	3/4"
3419	3/4"	3/8"
3416	3/4"	1/2"
3417	3/4"	3/4"



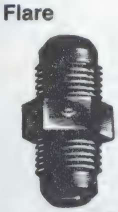
Union Reducer SAE Flare

No.	SAE	SAE
3519	1/4"	3/16"
3520	5/16"	1/4"
3521	3/8"	1/4"
3522	3/8"	5/16"
3524	1/2"	1/4"
5520	1/2"	5/16"
3525	1/2"	3/8"
5521	5/8"	1/4"
5522	5/8"	3/8"
3527	5/8"	1/2"
3528	3/4"	1/2"



Brass Union SAE Flare

No.	SAE
3330	3/16"
3331	1/4"
3332	5/16"
3333	3/8"
3335	1/2"
3336	5/8"
3337	3/4"



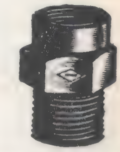
Half Union SAE Flare To Female Pipe Thread

No.	Size SAE	Female IPT
3480	3/16"	1/8"
3481	1/4"	1/8"
3482	1/4"	1/4"
3483	1/4"	3/8"
3484	5/16"	1/8"
3485	5/16"	1/4"
3488	3/8"	1/4"
3489	3/8"	3/8"
3491	1/2"	1/4"
3493	1/2"	1/2"
3494	5/8"	3/8"
3492	1/2"	3/8"
3495	5/8"	1/2"
3498	5/8"	3/4"



Half Union Female SAE Flare To Male Pipe Thread

No.	Fem. SAE	Male IPT
4261	1/4"	1/8"
4262	1/4"	1/4"
4268	3/8"	1/4"



A Long Forged Nuts SAE Flare

No.	SAE
3301	1/4"
3302	5/16"
3303	3/8"
3305	1/2"
3306	5/8"
3307	3/4"



Reducing Long Nuts SAE Flare



No.	Fitting	Tube
3581	3/8"	1/4"
3585	1/2"	3/8"
3587	5/8"	1/2"
3589	3/4"	5/8"

Short Forged Nuts SAE Flare

No.	SAE
3310	3/16"
3311	1/4"
3312	5/16"
3313	3/8"
3315	1/2"
3316	5/8"
3317	3/4"



Reducing Short Nuts SAE Flare

No.	Fitting	Tube
4513	1/4"	3/16"
4500	5/16"	1/4"
4501	3/8"	1/4"
4502	3/8"	5/16"
4505	1/2"	3/8"
4507	5/8"	1/2"
4509	3/4"	5/8"



Brass Cap Nut SAE Flare



No.	SAE
3390	1/16"
3391	1/4"
3392	5/16"
3393	3/8"
3395	1/2"
3396	5/8"
3397	3/4"

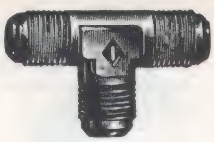
Sealing Plug SAE Flare



No.	SAE
3380	3/16"
3381	1/4"
3382	5/16"
3383	3/8"
3385	1/2"
3386	5/8"
3387	3/4"

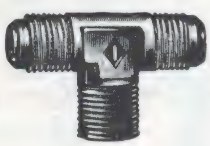
SEE SEPARATE PRICE LIST

Forged Tee SAE Flare



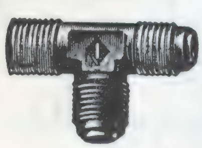
No.	SAE	No.	SAE
3341	1/4"	**3345**	1/2"
3342	5/16"	**3346**	5/8"
3343	3/8"	**3347**	3/4"

Forged Tee SAE Flare With Pipe Thread On Branch End



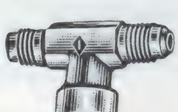
No.	SAE	IPT	No.	SAE	IPT
3461	1/4"	1/8"	**3472**	1/2"	3/8"
3462	1/4"	1/4"	**3473**	1/2"	1/2"
5460	1/4"	1/2"	**3474**	5/8"	3/8"
3465	5/16"	1/4"	**3475**	5/8"	1/2"
3468	3/8"	1/4"			
3469	3/8"	3/8"			
5461	3/8"	1/2"			

Forged Tee SAE Flare With Pipe Thread On End Of Run



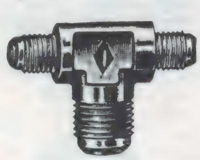
No.	SAE	IPT	No.	SAE	IPT
3441	1/4"	1/8"	**3448**	3/8"	1/4"
3442	1/4"	1/4"	**3449**	3/8"	3/8"
3444	5/16"	1/8"	**3452**	1/2"	3/8"
3447	3/8"	1/8"	**3453**	1/2"	1/2"
			3455	5/8"	1/2"

Forged Tee SAE Flare With Female SAE Flare On Branch End



No.	Description
3459	1/4" SAE Run With Female 1/4" SAE Branch

Forged Reducing Tees SAE Flare



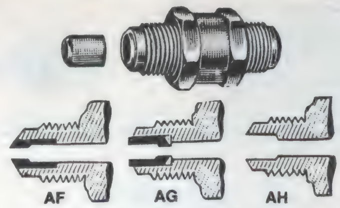
No.	Small SAE	Large SAE
5021	1/4"	3/8"
5025	3/8"	1/2"
5026	3/8"	5/8"
5027	1/2"	5/8"

Copper Seal Cap For SAE Flare Fittings



No.	SAE
3600	3/16"
3601	1/4"
3602	5/16"
3603	3/8"
3605	1/2"
3606	5/8"
3607	3/4"

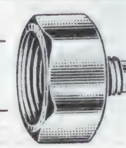
Watsco Magni-Check Valve



A non-electric check valve with a permanent magnet that holds the disc against seat in a closed position when the pressure balances. Opens on a fraction of an ounce of pressure to a full flow without pressure drop. May be installed in any position. Has combination T-S fittings that can be used for flare or OD connections.

No.	SAE	Fig AF OD	Fig AG OD	Fig AH OD
2346	1/4"	1/8"	3/16"	1/4"
2347	3/8"	1/4"	5/16"	3/8"
2348	1/2"	3/8"	7/16"	1/2"

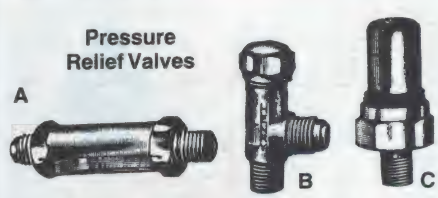
Cylinder Connections



No.	Fem. IPT	Male SAE
5638	1/2"	1/4"
5639	3/4"	1/4"
5664	3/4"	3/8"

No.	Description
5666	1/2" Gasket
5667	3/4" Gasket

Pressure Relief Valves

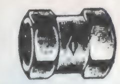


Type C for units having 6 lbs. or less of Freon and excess pressure is released directly in the room (not vented).

No.	Type	Inlet MIPT	Outlet SAE	Press. Relief
18500	A	1/4"	3/8"	235 Lb.
18581	A	1/4"	3/8"	350 Lb.
61453	A	1/4"	3/8"	400 Lb.
61641	A	1/4"	3/8"	450 Lb.
18509	A	3/8"	3/8"	235 Lb.
18582	A	3/8"	3/8"	350 Lb.
61454	A	3/8"	3/8"	400 Lb.
61642	A	3/8"	3/8"	450 Lb.
61643	A	3/8"	1/2"	235 Lb.
18583	A	3/8"	1/2"	350 Lb.
61455	A	3/8"	1/2"	400 Lb.
61644	A	3/8"	1/2"	450 Lb.
18592	A	1/2"	5/8"	235 Lb.
18584	A	1/2"	5/8"	350 Lb.
61645	A	1/2"	5/8"	450 Lb.
61457	A	3/4"	3/4"	400 Lb.
61649	A	3/4"	3/4"	450 Lb.
61651	A	1"	1"	450 Lb.
18593	B	1/4"	3/8"	235 Lb.
18587	B	1/4"	3/8"	350 Lb.
18594	B	3/8"	3/8"	235 Lb.
18588	B	3/8"	3/8"	350 Lb.
18597	B	3/8"	3/8"	450 Lb.
61658	B	1/2"	5/8"	235 Lb.
61659	B	1/2"	5/8"	350 Lb.
61660	B	1/2"	5/8"	425 Lb.
18595	C	1/8"	No	235 Lb.
18590	C	1/8"	No	350 Lb.
18596	C	1/4"	No	235 Lb.
18591	C	1/4"	No	350 Lb.
18598	C	1/4"	No	450 Lb.
18599	C	5/8"	No	235 Lb.

Brass Iron Pipe Thread Fittings

Brass Coupling



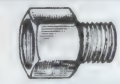
No.	IPT
3655	1/8"
3656	1/4"
3657	3/8"
3658	1/2"

Brass Hexagon Nipple



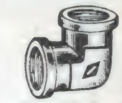
No.	IPT
3874	1/8"
3875	1/4"
3878	3/8"
3879	1/2"

Brass Adapter



No.	Fem.	Male
3890	1/4"	1/8"
3891	3/8"	1/4"
3892	1/2"	3/8"

Brass Elbow



No.	IPT
3640	1/8"
3641	1/4"
3642	3/8"
3643	1/2"

Both Ends Female

No.	IPT
3894	1/4"x1/8"
3895	3/8"x1/4"
3896	1/2"x3/8"

Brass Plugs



No.	IPT
3870	1/8"
3871	1/4"
3872	3/8"
3873	1/2"
3886	3/4"

Brass 45° Street Elbow



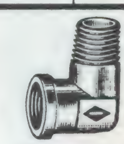
No.	IPT
3670	1/8"
3671	1/4"
3672	3/8"

Brass Reducing Bushing



No.	IPT
3880	1/4"x1/8"
3881	3/8"x1/4"
3882	3/8"x1/8"
3883	1/2"x3/8"
3884	1/2"x1/4"
3885	1/2"x1/8"
3897	3/4"x1/2"
3898	3/4"x3/8"

Brass Street Elbow



No.	IPT
3665	1/8"
3666	1/4"
3667	3/8"
3668	1/2"

Reducing Street Elbow

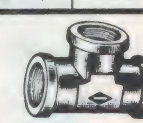
No.	IPT
3669	1/4"x1/8"

Reducing Nipple



No.	IPT
3876	1/4"x1/8"
3877	3/8"x1/4"

Brass Tee



No.	IPT
3645	1/8"
3646	1/4"
3647	3/8"
3648	1/2"

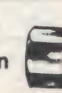
Compression Fittings

Compression Sleeves



No.	Tube OD	No.	Tube OD
1009	1/8"	**1002**	5/16"
1000	3/16"	**1003**	3/8"
1001	1/4"	**1005**	1/2"

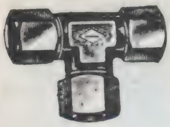
Compression Nuts



No.	Tube OD	No.	Tube OD
1019	1/8"	**1022**	5/16"
1020	3/16"	**1023**	3/8"
1021	1/4"	**1025**	1/2"

Sold Only In Standard Package

SEE SEPARATE PRICE LIST



Compression Tee

No.	Tube OD	No.	Tube OD
1039	1/8"	**1042**	5/16"
1040	3/16"	**1043**	3/8"
1041	1/4"	**1045**	1/2"



Compression Tee

No.	Tube OD	IPT	No.	Tube OD	IPT
1080	1/8"	1/8"	**1084**	5/16"	1/8"
1081	3/16"	1/8"	**1087**	3/8"	1/4"
1082	1/4"	1/8"	**1089**	1/2"	3/8"



Compression Elbow

No.	Tube OD	IPT	No.	Tube OD	IPT
1070	1/8"	1/8"	**1074**	5/16"	1/8"
1071	3/16"	1/8"	**1075**	5/16"	1/4"
1072	1/4"	1/8"	**1077**	3/8"	1/4"
1073	1/4"	1/4"	**1078**	3/8"	3/8"
			1079	1/2"	3/8"



Compression Female Half Union

No.	Tube OD	IPT	No.	Tube OD	IPT
1060	1/8"	1/8"	**1063**	1/4"	1/4"
1061	3/16"	1/8"	**1064**	5/16"	1/8"
1062	1/4"	1/8"	**1065**	5/16"	1/4"
			1067	3/8"	1/4"



Compression Union

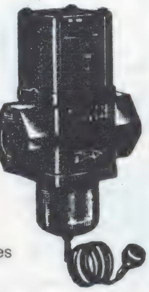
No.	Tube OD	No.	Tube OD
1029	1/8"	**1032**	5/16"
1030	3/16"	**1033**	3/8"
1031	1/4"	**1035**	1/2"



Compression Male Half Union

No.	Tube OD	IPT
1050	1/8"	1/8"
1051	3/16"	1/8"
1052	1/4"	1/8"
1053	1/4"	1/4"
1054	5/16"	1/8"
1055	5/16"	1/4"
1057	3/8"	1/4"
1058	3/8"	3/8"
1059	1/2"	3/8"

Johnson Controls Water Valve Series V46



Adjustable opening range from 70 to 260 lbs., 5 lb. differential. Operates on water pressure up to 150 lbs. Has 30" tube with 1/4" SAE nut.

For R-12, R-22 or R-502

No.	Size	Body
20921	⅜" FIPT	Brass
20922	½" FIPT	Brass
20925	¾" FIPT	Brass
20926*	1" FIPT	Iron
20928	1¼" FIPT	Iron
21232	1½" Size	Iron

*is not supplied with flanges

21233 Flanges for No. 21322 1½" FIPT Iron

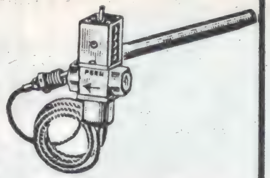
Johnson Controls Water Valve Replacement Kits



Each kit has diaphragm, element ring seal and guide, plate gasket, valve disc, valve seat, disc stem, seat guide, disc stud, and seat wrench to repair pressure and temperature actuated water valves with aluminum bronze seat for normal use.

No.	J.C. No.	Valve size
21223	STT14A-600R	3/8"
21224	STT15A-602R	1/2"
21225	STT16A-601R	3/4"
21226	STT17A-601R	1"
21227	STT17A-605R	1-1/4"x1-1/2"

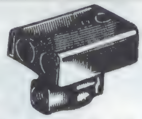
Johnson Controls Temperature Actuated Water Valves



Has cross ambient 10" bulb 11/16" OD with a tank pass thru connection of 1/2" MIPT with 6 ft. armored capilliary tube. Range 75° to 135° with non-adjustable 5° differential. Opens on rise of temperature for cooling applications.

No.	Size
21380	1/2" FIPT
21381	3/4" FIPT
21384	1" FIPT

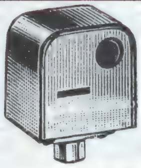
Johnson Controls Liquid Flow Switch



Operates on a minimum pressure of 10 lb. per sq. in. Cut in point adjustable 1-3/4 to 2-1/2 gal. per min. with cut out point 1/2 gal. less. Has 1/2" FIPT connections. Uses Johnson Controls enclosed sealed contact switches with motor capacity approx. 1/2 HP 110/220V 60C AC.

20967

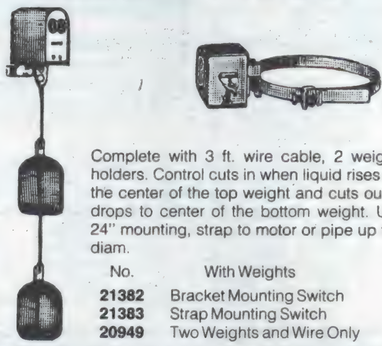
Johnson Controls Double Pole Pressure Pump Switch



Small compact 2 pole double break, pressure switch. Rated 1 HP 115/230V, 1/4 HP 32V DC. Connection 1/4" FIPT.

No.	Range	Diff. Min.	Max.	Close	Open
9359	15-70	15	25	20	40
9362	6-75	10	35	40	20

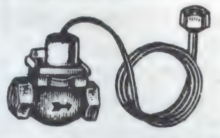
Johnson Controls Sump Pump Switch



Complete with 3 ft. wire cable, 2 weights with holders. Control cuts in when liquid rises to about the center of the top weight and cuts out when it drops to center of the bottom weight. Universal 24" mounting, strap to motor or pipe up to 5-1/2" diam.

No.	With Weights
21382	Bracket Mounting Switch
21383	Strap Mounting Switch
20949	Two Weights and Wire Only

Water Regulating Valve



Small compact pressure operated water regulated valve with an adjustable pressure range. Has stainless steel seat and disc. Bracket holes on 1-3/16" centers. Light weight bronze body and stainless steel spindle. 2-1/2" wide. Has 34-1/2" tube with 1/4" SAE flare nut. 3/8" FeIPT water conn.

No.	Refrigerant	Range
14044	R-12	70 to 170 lbs.
14045	R-22	175 to 225 lbs.

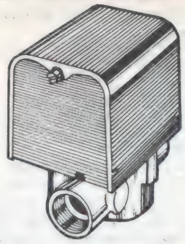
Saddle Valves



1/8" IPT, 1/4" OD tube extension on bottom. To install drill 1/4" hole in 1/2" or 3/4" iron pipe supply line, clamp on valve. Outlet 1/4" OD tube compression fitting.

No.	Description
70976	Complete with clamp

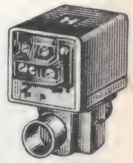
Motorized Zone Control Valve With Quikonnekt Fittings



Quiet operating 100% shut off straight through motorized zone valve normally closed to control flow of hot water up to 220°F. for baseboard radiation. 2-way, 24V with end switch, control features inverted flare. Fittings can be silver soldered.

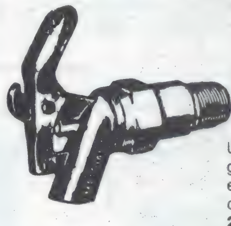
No.	Model	Nom. Size	OD Tube
22158	0767C0036GA01	3/4"	7/8"
22159	0767C0034GA01	1/2"	5/8"

Honeywell Motorized Zone Valve



Straight through motorized zone valves normally closed to control water or steam for baseboard radiation, convectors, or fan coil units. 15 seconds to open or close. For 2 wire 24V control circuit with integral switch for auxiliary equipment control. Terminal block with 5 screw terminals. For water pressure to 125 PSI.

No.	V8043F-	Size
73550	—1036	7/8" OD
73551	—1051	1-1/8" OD

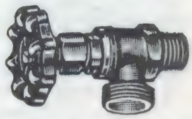


Self Closing Drum Faucet

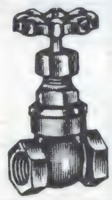
Used on steel drums for oil, gasoline, kerosene, alcohol, etc. 3/4" IPT fitting to fit standard steel drums.

23013

Boiler Drain Water Valve



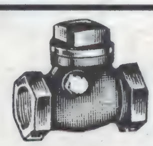
No.	Nominal	No.	Nominal
6424	1/2" Male IPT	**6425**	3/4" Male IPT



Gate Valve

Rated 100 lbs. SWP and 125 lb. WOG

No.	FIPT	No.	FIPT
6458	3/8"	**6459**	1"
6428	1/2"	**6461**	1-1/4"
6430	3/4"	**6462**	1-1/2"



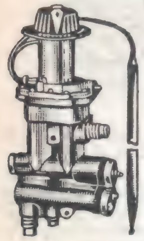
Swing Check Valve

Can be used in horizontal or vertical position. Has brass disc. Valve has 100 lb. SWP or 125 lb. WOG.

No.	FIPT	No	FIPT
6466	3/8"	**6427**	3/4"
6426	1/2"	**6469**	1"

SEE SEPARATE PRICE LIST

Warren Selectaflow Hot and Cold Water Thermostatic Self Contained Modulating Valve



2 Pipe System

This 2 pipe system has hot and cold water source feed to the inlet and outlet connects to coil. Hot and cold water must be individually valved off and only the water with the desired temperature is supplied to the valve at any one time. The thermostatic element controls the supply line and the valve will deliver a modulated supply of either hot or cold water as demanded. One power element automatically controls the change from hot to cold and a second power element controls the volume supplied to the coil to maintain the temperature setting on the Selectaflow. All parts are replaceable and are corrosion resistant. Has monel strainers, forged brass body, stainless steel ball valves, springs, etc. Adjustable range 65° to 85°F. 1/2" SAE connections. Supplied with actuator control on valve or with actuator control for remote location with 15 Ft. of cap. tube. Thermostatic sensing bulb 1/2" OD 16" long replaces 7/16" bulb 18-1/2" long.

No.	Type	Actuator
48866	VD21301	On Valve

Replacement Parts For Selectaflow Valves

No.	Power Element Assembly For Model
48870	VD213, 214, 215, and 219
48872	VD216, 217, 218, and 220

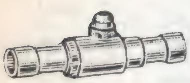
Parts for Models VD213 To VD218 And For Models VD219 and VD220

No.	Part	Description
48877	TA21315	Adjusting Knob
48878	S1191	Cap Screw For Flanges
48879	TA212123	Power Element Gasket
48880	TA21908	Hot Water Ball And Guide Assembly
48881	TA21350	Fulcrum Assembly
48891	TA212130B4	By Pass Connec Gasket
48883	TA212146	Cooling Side Spring
48884	S1184	Ball Cooling
48970	TA212180-S	Seat Cooling
48971	TA212181-S	Seat Heating
48972	TA212190	Cooling Push Rod Assem
48973	S1338	O-Ring

Parts For Models VD213 To 216

No.	Part	Description
48885	TA21360	Reversing Power El. Assy.
48828	EV1121	Reversing Power Element
48886	TA212191	Inlet Strain 20 Mesh Screen
48892	TA212175	"O" Ring Inlet Strainer
48893	77545	Gasket For Inlet Screen
48974	S1497	Reversing Ball
48976	TA212151	By Pass Connect SAE 3/16"
48977	TA21359	Reversing Element Overide Spring
48978	TA21348	Reversing Element Strainer 20 Mesh
48979	TA212159	Reversing Power Element Guide Assembly
48980	TA212162	Reversing Seat

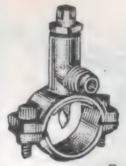
Shut-off Ball Valves



Forged brass body with copper pipes silver soldered into the body. Need only 1/4" turn for on or off. Max. operating pressure of 500 PSI. Reinforced Teflon seats for positive fitting and longer life. Chromium plated ball for smoother valve action. Dot on stem should be upstream when valve is in off position.

No.	Conn. Size O.D.F.	Norm. Capacity of 2 PSI Drop Tons Of Ref.		Overall Length
		R-12	R-22	
60730	3/8"	10	13	6-1/8"
60731	1/2"	24	30	6-1/4"
60732	5/8"	31	38	6-1/2"
60733	7/8"	72	88	7-1/4"
60734	1-1/8"	108	132	8-1/4"
60735	1-3/8"	224	274	9"
60736	1-5/8"	224	274	9-1/4"

Instant Flow Tap Valve



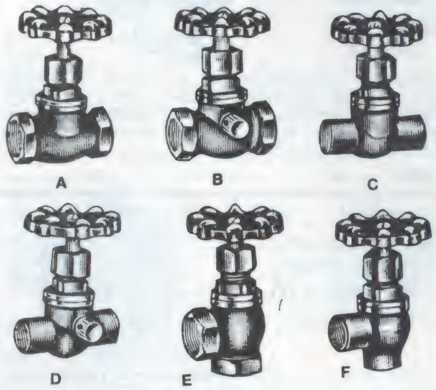
Makes connection to 1/2", 3/4" or 1" iron pipe or equivalent size of brass or copper pipe. Use "O" ring gaskets for water or utility gas.

No.	Branch Connections	Fits Nom. Iron-Brass Pipe	Fits OD Copper Tube
60531	3/8" SAE	1" Nom.	1 3/8" OD
60532	3/8" SAE	3/4" Nom.	1 3/8" OD
60533*	3/8" SAE	1/2" Nom.	7/8" OD

*Has Insert To Fit 5/8" OD Copper

STOP WATER VALVES

Low pressure water lines from 60 to 90 lbs.



A Female Pipe Valve

No.	Nominal
6400	3/8" FIPT
6401	1/2" FIPT
6402	3/4" FIPT

B Female Pipe Valve With Waste

No.	Nominal
6404	1/2" FIPT
6405	3/4" FIPT

C Solder Valve

No.	Nom.	Tube
6412	3/8"	1/2 OD
6413	1/2"	5/8 OD
6414	3/4"	7/8 OD
6452	1"	1-1/8" OD

D Solder Valve With Waste

No.	Nom.	Tube
6415	3/8"	1/2" OD
6416	1/2"	5/8" OD
6417	3/4"	7/8" OD

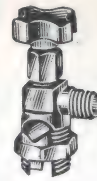
E Female Angle Piple Valve

No.	Nominal
6406	3/8" FIPT
6407	1/2" FIPT
6408	3/4" FIPT

F Solder Angle Valve

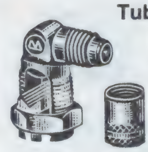
No.	Nom.	Tube
6418	1/2"	5/8" OD
6419	3/4"	7/8" OD

Hermetic Port Valve



No.	Tubing Size
22760	For 3/16" to 3/8" Tube
22761	For 3/8" to 1/2" Tube
22773	For 1/2" to 5/8" Tube

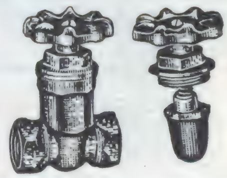
Tube Piercing Angle Check Valve



Built in check valve that opens when used with a valve depressor fitting or charging line. 1/4" SAE connection at 90° with quick seal brass cap.

No.	Tubing Size
22754	3/16" to 3/8"
22755	1/2" to 5/8"

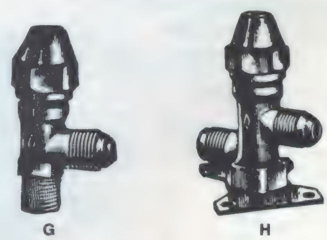
Throttling Gate Valve



Recommended for service pressure to 250 lbs. and temperature from -40° to 180°F. May be used with water, oil, gas, alcohol, kerosene, propane, animal oils, and mineral oils and up to 15 lbs. saturated steam.

No. With IPT Threads	Nom. IPT	No. OD Solder	OD Tube
5040	1/8" IPT	**5050**	1/4" OD
5041	1/4" IPT	**5051**	3/8" OD
5042	3/8" IPT	**5052**	1/2" OD
5043	1/2" IPT	**5053**	5/8" OD
5044	3/4" IPT	**5054**	7/8" OD

Shut Off Valves



G Angle Shut Off Valve

For liquid receivers, manifolds, evaporator heads, or for use as compressor valve. With seal cap.

No.	Size
	With 1/4" Male IPT
3720	1/4"
	With 3/8" Male IPT
3724	3/8"
3725	1/2"
	With 1/2" Male IPT
3726	4/8"

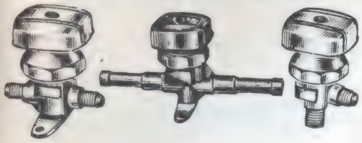
H Two Way Shut Off Valve

With base plate and seal cap.

No.	Size
3740	1/4"

SEE SEPARATE PRICE LIST

Diaphragm Packless Valves



With forged brass bodies with wrench flats and integral mounting base. A phosphor bronze diaphragm between 2 stainless steel diaphragms makes a positive seal between the bonnet and the body.

No.	Type	Size	High Full Open
32140	A	1/4" SAE	3"
32141	A	3/8" SAE	3"
32142	A	1/2" SAE	3-5/8"
32143	A	5/8" SAE	3-5/8"

Have extended ends to allow a wet cloth to protect the valve when soldering to avoid disassembling.

No.	Type	Size	Roughing In Dimension
32148	B	1/4" OD	5-3/8"
32149	B	3/8" OD	5"
32150	B	1/2" OD	6-5/16"
32151	B	5/8" OD	6-5/16"

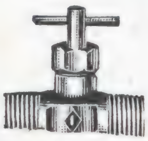
No.	Type	Bottom MIPT	Side Flare
32152	C	1/4" MIPT	1/4" SAE
32153	C	1/4" MIPT	3/8" SAE
32154	C	3/8" MIPT	1/4" SAE
32156	C	3/8" MIPT	1/2" SAE
32158	C	1/2" MIPT	5/8" SAE

Shut Off Valves

For straight through line connections. Compression connections on both ends, and complete withnuts and sleeves.

No.	FIPT	Other End
4422	1/8"	1/8" MIPT
4423	1/4"	1/4" MIPT
4425	1/4"	1/4" FIPT

Shut Off Needle Valves



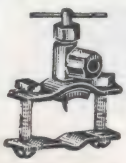
For straight through line connections. Compression connections on both ends, and complete withnuts and sleeves.

No	OD Compression
4434	1/4"x1/4"
4436	3/8"x3/8"

With MIPT connections on both ends.

No.	MIPT
4437	1/8"x1/8"
4438	1/4"x1/4"

Tapping Valve



3/8" to 1-1/8" OD copper tube outlet 1/4" compression fitting.

60545

Triple Seal

2 Way Ports-In-Line Valve

Back seating heavy duty valves have forged brass bodies with integral mounting base and forged brass bonnets. Uses triple diaphragm seal with phosphor bronze.

No.	Connections
32120	3/4" OD Solder
32121	7/8" OD Solder
32122	1-1/8" OD Solder

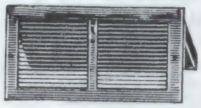
2 Way Line Valves

Packed - Back Seating - Seal Caps

Extra heavy all brass construction 2 way packed line valve with "o" ring in body and back seating stem to allow for repacking in service steam carries nylon molded seat.

No.	Solder
32125	7/8" OD
32126	1-1/8" OD
32127	1-3/8" OD
32128	1-5/8" OD
32129	2-1/8" OD
32130	2-5/8" OD

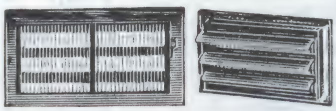
Wall Register



White enamel with second set of blades to give right and left deflection.

No.	W x H
72300	8" x 6"
72302	10" x 6"
72304	12" x 6"

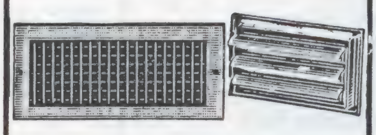
Multi Shutter Wall Register



White enamel, one piece face with vertical on 1/2" centers factory set at 20° right and left. The multi shutter has interlocking louvers. Add 1-1/4" to duct size for overall. WxH. Only 1-5/8" deep behind face.

No.	W x H	No.	W x H
72220	8"x4"	**72226**	12"x6"
72221	8"x6"	**72227**	12"x8"
72222	10"x4"	**72230**	14"x4"
72223	10"x6"	**72228**	14"x6"
72225	12"x4"	**72229**	14"x8"

Adjustable Single Bar Register With Adjustable Louvers



Only 1-13/16" deep behind the white enamel face plate. Overall size add 2-3/8" to duct.

No.	W x H	No.	W x H
72160	8"x6"	**72184**	18"x6"
72178	8"x8"	**72169**	18"x8"
72162	10"x6"	**72170**	20"x6"
72179	10"x8"	**72171**	20"x8"
72163	12"x4"	**72172**	24"x6"
72165	12"x6"	**72173**	24"x8"
72166	12"x8"	**72185**	24"x10"
72180	12"x10"	**72174**	24"x12"
72167	14"x6"	**72177**	36"x12"
72181	14"x8"	**72183**	16"x8"
72182	14"x10"		

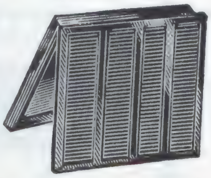
Return Air Grilles



White enamel, installed for air flow up or down. Sizes under 16" x 10" add 1-1/4" to width and height, over 16" x 10" add 2" to width and height.

No.	W x H	No.	W x H
72402	10"x4"	**72428**	20"x14"
72403	10"x6"	**72429**	20"x16"
72405	10"x10"	**72430**	20"x18"
72407	12"x6"	**72431**	20"x20"
72408	12"x8"	**72432**	24"x6"
72410	12"x12"	**72434**	24"x10"
72411	14"x6"	**72435**	24"x12"
72414	14"x12"	**72436**	24"x14"
72415	14"x14"	**72437**	24"x16"
72416	16"x8"	**72438**	24"x18"
72417	16"x10"	**72439**	24"x20"
72418	16"x12"	**72440**	30"x6"
72420	16"x16"	**72441**	30"x8"
72421	18"x12"	**72442**	30"x10"
72423	18"x16"	**72443**	30"x12"
72425	20"x8"	**72444**	30"x14"
72426	20"x10"	**72445**	30"x16"
72427	20"x12"	**72446**	30"x18"
		72447	30"x20"

Return Air Hinged Filter Grilles



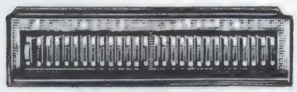
Duct opening add 5/16" to width and 1/4" to height, overall add 2" to W x H. In dover white baked on enamel.

No.	W x H	No.	W x H
72540	20"x14"	**72544**	24"x14"
72541	20"x16"	**72547**	25"x16"
72542	20"x20"	**72548**	25"x20"
72543	24"x12"	**72549**	30"x20"

Same with long side vertical.

No.	W x H	No.	W x H
72550	16"x20"	**72552**	20"x25"
72551	16"x25"	**72553**	20"x30"

Floor Diffusaire Register

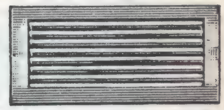


Sand colored enamel with adjustable vanes for any air flow.

Nom. Width	Overall Width	Overall Length	Depth
2-1/4"	3-3/8"	Add 1-1/8"	2-15/16"
4"	4-1/8"	Add 1-1/8"	2-3/8"
6"	5-1/4"	Add 1-1/4"	3-3/8"

No.	Size	No.	Size
72270	2-1/4"x10"	**72272**	2-1/4"x14"
72271	2-1/4"x12"	**72273**	4"x10"
		72275	4x14"

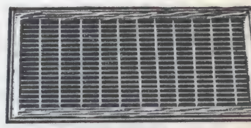
FIXT-AIRE Return Air Grilles



White finish. Add 2-3/8" to duct size for overall W x H. 3/4" deep behind face.

No.	W x H	No.	W x H
72100	8"x6"	**72157**	14"x8"
72101	10"x6"	**72158**	14"x10"
72155	10"x8"	**72159**	14"x12"
72102	10"x10"	**72107**	18"x12"
72103	12"x6"	**72108**	18"x18"
72156	12"x8"	**72109**	24"x12"
72104	12"x10"	**72110**	24"x18"
72105	12"x12"	**72112**	30"x12"
72106	14"x6"		

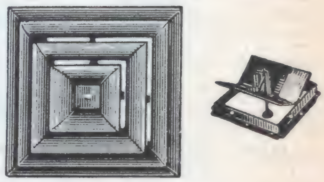
"No-Flex" Floor Return Air Grilles



In golden sand finish.

No.	Size
72485	6"x14"
72489	8"x14"
72495	10"x18"
72496	10"x24"
72498	12"x14"

Square Ceiling Diffusaire



White enamel finish.

Square Ceiling Diffuser Only

No.	O.D.	Deep	Size
72381	13-1/2"	2-1/2"	8"
72382	15-1/2"	2-1/2"	10"
72383	17-1/2"	3-1/16"	12"
72384	19-1/2"	3-1/16"	14"
72385	21-1/2"	3-21/32"	16"
72386	23-1/2"	3-21/32"	18"
72387	25-1/2"	4-7/32"	20"

Damper Only

No.	Size	No.	Size
72391	8"	**72395**	16"
72392	10"	**72396**	18"
72393	12"	**72397**	20"
72394	14"		

These dampers have opposed blades and have external control louvers.

Round Step Down Ceiling Diffusaire

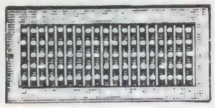


No.	Size	No.	Size
72350	6"	**72360**	**6"**
72351	8"	**72361**	**8"**
72352	10"	**72362**	**10"**
72353	12"	**72363**	**12"**
72354	14"	**72364**	**14"**

SEE SEPARATE PRICE LIST

Grilles/Filters

TRIPL-AIRE Double Deflection Grilles



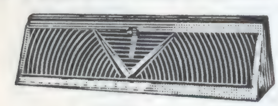
White enamel, Vertical front bars and horizontal back bars give you maximum control of air spread. Bars are 1/2" with 1/2" spacing adjustable in either direction. Add 2-3/8" to duct size for overall size with depth behind face 1/2".

No.	W x H	No.	W x H	No.	W x H
72145	10"x4"	**72134**	14"x6"	**72138**	24"x8"
72131	10"x6"	**72135**	14"x8"	**72139**	24"x10"
72146	12"x4"	**72149**	16"x8"	**72140**	24"x12"
72132	12"x6"	**72150**	20"x6"	**72141**	30"x6"
72133	12"x8"	**72136**	20"x8"	**72142**	30"x8"
72147	14"x4"	**72137**	24"x6"	**72144**	30"x12"

Add 2-3/8" to duct size for overall W&H and D- 2-15/16" behind front panel. In dover white finish.

No.	W x H	No.	W x H	No.	W x H
72187	8"x4"	**72193**	14"x6"	**72203**	24"x12"
72190	10"x6"	**72194**	16"x6"	**72499**	12"x24"
72211	12"x4"	**72196**	18"x6"	**72500**	12"x30"
72191	12"x6"	**72197**	18"x12"	**72502**	14"x16"
72192	12"x8"	**72198**	20"x6"	**72503**	14"x24"
72212	14"x4"	**72199**	20"x8"	**72504**	14"x30"

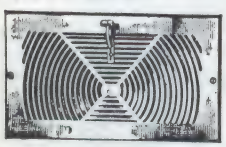
18" Perimeter Floor Diffusaire



18" long 4-1/2" high with 2-3/4" base.

No.
72338

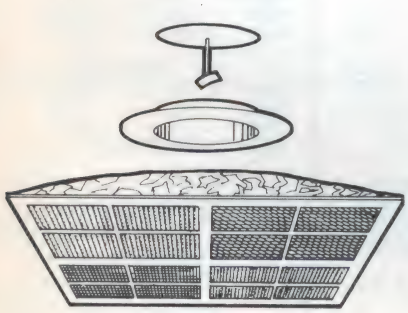
Side Wall Diffusaire



Add 1-1/4" to width and height for overall size.

No.	W x H	No.	W x H
72327	10"x6"	**72328**	**12"x6"**

Ceiling Diffuser

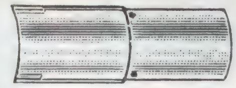


24" x 24" flush mounted T-bar drop in ceiling diffuser offers 4-way uniform air-flow patterned for use in ceilings. Butterfly damper controls air volume over entire diffuser and is adjustable from closed to fully open.

No.
72450 Ceiling diffuser with insulated back

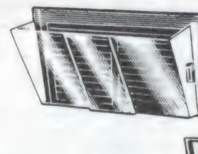
No.	Description	No.	Description
72451	6" collar	**72455**	6" damper
72452	8" collar	**72456**	8" damper
72453	10" collar	**72457**	10" damper
72454	12" collar	**72458**	12" damper

Extension Sleeve

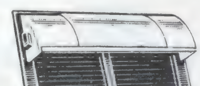


72598

Clear Plastic Air Deflectors



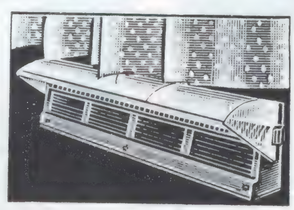
A



B

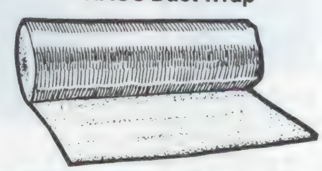
No.	Type	Adjustable Length	No.	Type	Adjustable Length
72590	A	10-16"	**72591**	B	10-14"

Deflectors for Baseboard Registers Or For Air Conditioners



No.	Adjustable Length
72594	15-25"

HACO Duct Wrap



Has class 723 fire hazard classification less than 25 flame spread and 50 smoke developed. Thermal conductance is expressed as BTU/SQ. FT./°F at 75°F. Supplied in high recovery compression packed rolls, reducing storage space. Comes in 48" wide rolls 100 ft. long expanding to 1½" thickness with one 2" tab standard.

Physical Properties Of Duct Wrap

Description	Vapor Transmission	K Factor	Combustible UL Rating
Foil/Scrim/Kraft	.10	.31	FHC 25/50
Grey Polyethylene	1.0	.31	FHC 25/50

No.	Description	No.	Description
80912	F/S/K	**80914**	Polyethylene

HACO Flex Aluminum Un-Insulated Flexible Air Heating Duct

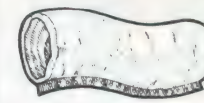


Can be compressed from 8 ft. to 4 ft. long and hand bent around turns and obstructions for ease in setting up systems. Temperature range—100° to +435°F.

8 Ft. Lengths

No.	Inside Dia.	Weight Carton	No.	Inside Dia.	Weight Carton
80770	3 in.	11 lbs.	**80776**	10 in.	8 lbs.
80771	4 in.	11 lbs.	**80777**	12 in.	9 lbs.
80772	5 in.	11 lbs.	**80778**	14 in.	10 lbs.
80773	6 in.	12 lbs.	**80779**	16 in.	11 lbs.
80774	7 in.	7 lbs.	**80780**	18 in.	12 lbs.
80775	8 in.	6 lbs.			

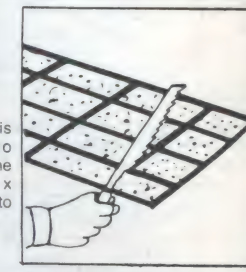
HACO Flex 25 RF Series Class I Air Duct For High or Low Pressure Heating and Cooling



Encapsulated in a double layer of polyester film, outer barrier jacket is reinforced metalized Mylar®.

No.	I.D.	No.	I.D.
80921	5 in.	**80926**	10 in.
80922	6 in.	**80927**	12 in.
80923	7 in.	**80928**	14 in.
80924	8 in.	**80929**	16 in.
80925	9 in.		

Cut-to-Size Furnace Filters



Polyurethane foam pad is molded permanently to sturdy polypropylene frame and supporting grid. 20" x 25" x 1" can be cut down to 10 filter sizes.

20440

Cut-to-Size Air Conditioning Filter

No.	Description
20441	14¾"x23½"x¼"

Air Conditioning Pad

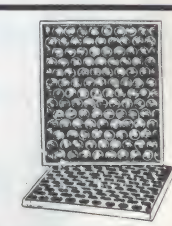
No.	Description
20442	15"x24"x¼"

Bulk Filter Rolls

24" wide x 10' long roll of polyurethane foam.

No.	Description
20443	¼" Filter Roll
20444	½" Filter Roll

Fiberglas DustStop II Filters



Replacements where air velocities do not exceed 300 FPM.

Filters 1" Thick

No.	Size	No.	Size
20400F	8"x16"	**20482F**	15"x20"
20480F	10"x10"	**20592F**	15"x30⅝"
20590F	10"x24"	**20483F**	16"x20"
20402F	10"x25"	**20484F**	16"x25"
20404F	12"x25"	**20485F**	20"x20"
20567F	12"x30⅝"	**20486F**	20"x25"

Filters 2" Thick

No.	Size	No.	Size
20493F	16"x20"	**20495F**	20"x20"
20494F	16"x25"	**20496F**	20"x25"

Fiberglas U-Trim-It Window Unit Filter

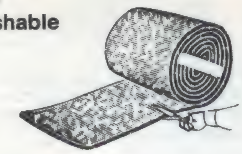


21299F

15"x24"x⅜" filter of uniform filter fibers in individual polyethylene bags.

SEE SEPARATE PRICE LIST

Air Filters
Permanent Washable



Made of natural hairs.

No.	Thick	Wide	Long
20460	1"	25"	36 Ft.
20461	2"	25"	18 Ft.

Skuttle
Plastic Washable Filter For Air Conditioners



No.		Size
20470	**Filtermat**	15"x24"
20471	**Filterall**	10 Feet by 20" Wide

Research Products Multi-Velocity Industrial Air Filters

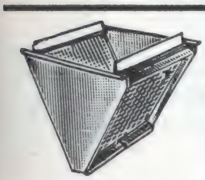
Similar to the standard permanent type air filter but for high velocities and heavy duty industrial use. Filters are coated with standard deodorizing air filter adhesive that is water soluble. Easily cleaned and recoated for reuse. The CFM capacity at a velocity of 350 FPM is twice the sq. inch area of filter, and at 250 FPM is about 3 times sq. inch of filter area.

Filters 1" Thick

No.	Size Inches	No.	Size Inches
28778F	15x20	**28781F**	20x20
28779F	16x20	**28782F**	20x25
28780F	16x25		

Filters 2" Thick

No.	Size Inches	No.	Size Inches
28785F	16x20	**28787F**	20x20
28786F	16x25	**28788F**	20x25



Research Products Grease Filters

Exactly the same as the heavy duty industrial filters but without any coating. Used in range canopies, kitchen exhaust systems to remove the grease. Minimize the fire hazard that dust and grease create in exhaust ducts and protect motor and blower equipment from costly damage.

Filters 2" Thick

No.	Size Inches	No.	Size Inches
28791F	16x20	**28793F**	20x20
28792F	16x25	**28794F**	20x25



Research Products EZ Kleen Aluminum Trim To Size Washable Air Filter

Packed in individual polyethylene bags.

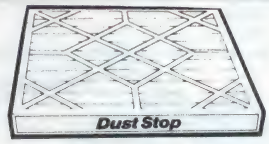
No.	Description	No.	Description
28700L	15"x24"x⅜"	**28712L**	40"x64"x¼"



Research Products Super Handi-Koter Deodorizing Air Filter Adhesive

28773	Pint size with sprayer
28775N	5 gal. dilute with = amount of water

DUST PLEAT I Pleated Disposable Air Filters



Designed to fit new or existing HVAC systems. Performance rated ASHRAE 52-76 welded wire reinforced pleats disposable fire proof media, all glued construction. Efficiency 25%-30%.

2" and 4" Thickness

No.	Nominal Size HxWxD (Inches)	CFM Capacities Med.	CFM Capacities High	Media Sq. Ft.	Resistance Capacity (In-W.G.) Med.	Resistance Capacity (In-W.G.) High	Final
20511F	16x20x2	550	1100	5.7	.28	.39	1.0
20513F	16x25x2	695	1390	7.2	.28	.39	1.0
20514F	20x25x2	870	1740	8.5	.28	.39	1.0
20515F	24x24x2	1000	2000	10.0	.28	.39	1.0
20524F	20x25x4	1000	2000	13.5	.26	.37	1.0
20525F	24x24x4	1200	2400	15.5	.26	.37	1.0

Research Products Permanent Aluminum Cleanable Filters



Filters 1" Thick

No.	Size Inches
28703F	10x20
28711F	15x20
28716F	16x20
28719F	16x25
28738F	20x20

Filters 2" Thick

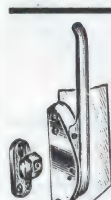
No.	Size Inches
28739F	20x25
28753F	16x20
28754F	16x25
28755F	20x20
28756F	20x25

Air Filter Adhesive In Aerosol Spray Can

Deodorizing air filter adhesive in a 16 oz. aerosol spray.

28776

Kason Edgemount Latches For Reach Ins



17105



17106

Made of high pressure zinc die casting in a plated chrome finish. Mounting hole centers on striker are 1-9/16" adjustable 3/4" chrome finish. Latches have common hole and mounting holes on 3-3/4" and 4-1/2" centers. Latch is 9-5/16" overall.

No.	Description
17105	Latch Only
17108	Strike Only

Similar to above only latch is 10-11/16" overall with common hole and mounting holes on 5-1/8" and 5-7/8" centers.

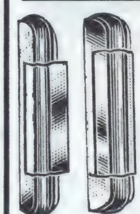
17106	Latch Only With Lock
17107	Latch Only Without Lock
17108	Strike Only

Kason Edgemount Latches For Reach Ins



Made of high pressure die cast zinc castings with polished chromium finish. Latch is 10-3/4" overall with top two mounting holes on 3/4" centers, the next two on 3-3/8" centers and bottom two on 1-17/32" centers. The strike has mounting holes on 9/16" and 5-15/32" centers.

No.	Description
17109	Latch With Cylinder Lock
17110	Latch Without Lock
17111	Strike Only



A B

Kason Adjustable Edgemount Hinge

Polished chrome finish. 5" long, 1-1/32" wide. Mounting holes on 13/16" centers in steel mounting straps with aluminum adjustment plates. Has 1-1/8" offset.

No	Type
17148	A

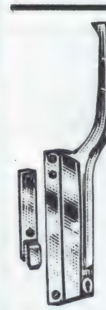
Similar to above but 5-3/4" long by 1-1/8" wide. Mounting holes on 1-13/16" centers in steel mounting straps with aluminum adjustment plates. Has 1-1/8" offset.

17150	B

Edgemount Self Closing Hinge

Same as above but self closing. Same dimensions as No. 17150 but with an adjustable powerful spring loaded cartridge that may be adjusted to close the door with the necessary pressure. 1-1/8" offset.

No.	Type
17152	B



Kason Magnetic Positive Latch Edge Mounted

Mounting hole centers on striker are 2-1/16", on lock with one hole common 4-5/8" and 5-1/4". Latch and handle 10-1/2" overall. Latches and striker sold seperately.

No.	Handle	Latch
17100	Offset	None
17101	Straight	None
	With Cylinder Lock and Key	
17102	Offset	With
17103	Straight	With
17104	Strike Only	

Kason Trigger Action Latch for Reach Ins



This trigger action latch has strike adjustable from 3/4" to 1-1/4" offset with fine threaded adjustment. Made from high pressure zinc die casting in polished chrome finish. Mounting holes on latch are on 1-1/2" and 13/16" centers and on strike on 1-1/2" and 7/8" centers. Strike and latch sold separately. Latch and strike 4-15/16" overall.

No.	Description
17114	Latch Only
17116	Strike Only 3/4" to 1-1/4" Adjustments

Similar to above but larger has bolt holes on latch on 1-3/4" and 1" centers and on strike on 1-3/4" and 5/8" centers. The adjustable micrometer strike is adjustable from 7/8" to 1-1/8". Latch and strike 6-7/8" overall.

17117	Latch
17118	Strike Only

SEE SEPARATE PRICE LIST

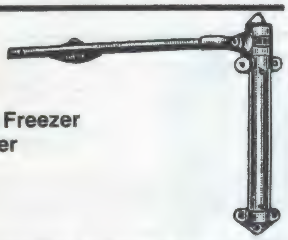
Kason Safeguard Latches for Walk In Coolers



Compact and light for use on lighter weight doors. Has cylinder lock with provision for padlocking. Inside release handles. Strike is adjustable from 3/4" to 1-1/2" offset. Mounting holes are on 29/32" centers and on 3-3/8" on latch. Latch and strike 9-9/16 overall.

No.	Description
17120	Latch Only With Lock & Keys
17122	Adjustable Strike Only from ¾" to 1½"
17124	Push Rod Only

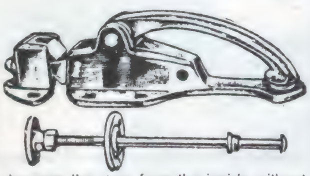
Kason Refrigerator and Freezer Door Closer



Attached to outside of door with adjustable tension. Will hold door open when desired. For right or left hand doors. 17-3/8" high, 3-9/16" wide with 19-3/4" arm.

No.	Description
17187	Complete Door Closer With Arm

Cooler Lock



A heavy duty Cooler Lock used with a strike that has an adjustable offset from flush to 1-1/8". Has an inside push rod that enables you to open the door from the inside without using your hands. Reversible for use on right or left hand door. It has an overall length of 13-5/8" and an overall width of 4". Center to center dimensions of latch both holes are 2-3/8" and 5-11/16" lengthwise, 3-3/8" and 1-7/8" width. Center to center dimensions of strike both holes are 1-3/4" by 3-3/8". Weight of brass 11, and of iron 10 lbs.

Malleable Iron In Zinc Plated Finish

No.	Description
17400	Lock With Push Rod Less Strike
17401	Strike Only

A heavy duty cooler lock that is of the same construction as the No. 17400 but is 10" overall and 3-1/8" wide. Has a strike with an adjustable offset from 1/4" to 1-1/4". Supplied with an inside push rod. Weight 6 lbs.

Malleable Iron In Zinc Plated Finish

No.	Description
17406	Lock With Push Rod Less Strike
17407	Strike Only

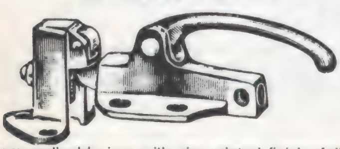
Refrigerator Safety Lock Ironcasting



Inside safety release even when padlocked. Adjustable roller strike from 11/16" to 1-1/2". 10-1/2" long.

No.	Description
17248	Lock only
17249	Strike 11/16" to 1-1/2" Offset

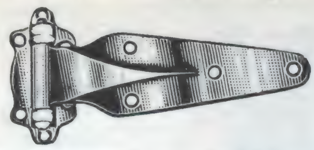
Service Door Lock



Made from malleable iron with zinc plated finish. Adjustable strike up to 1-1/2" offset. 8-3/4" long, 3" wide.

No.	Description
17532	Lock Only
17533	Strike Only

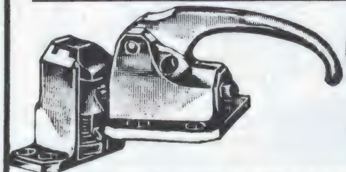
Kason Malleable Iron Hinges



Ball bearing iron hinges with steel flange and malleable iron straps. On a plated corrosion resistant Kasonized finish. Has loose steel pin and hardened ball bearing washer. Hinge 9-3/4" overall with butt 5-1/2" by 2-1/2" with strap 2-3/4" wide.

No.	Offset
17173	7/8"
17174	1-1/8"
17175	1-1/4"

Forged Brass Latch With Micro Adjustment Strike



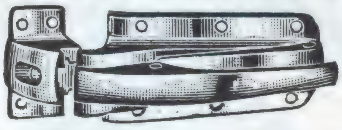
Micrometer adjustable strike for offsets from 5/8" to 1-1/4" to hair line adjustment giving an air tight positive seal. Lock with strike 7" overall add 2-3.4" wide. Has provision for padlock. Reversible for right or left hand doors.

No.	Description
17710	Lock Only
17711	Strike Only

Lock with strike 6" overall and 2" wide. Has provision for padlock. In attractive polished chrome plate.

No.	Description
17712	Lock Only
17732	Strike Only

Kason Safe Guard Latch For Walk In Coolers



This latch has inside release arm with a lever action that opens door even if lock is padlocked. Roller action catch operates smoothly and independently of handle with less noise and easier action. Made from high pressure zinc die castings with polished chrome finish. Micrometer strike adjustable from 1-1/8" to 1-5/8" mounting holes on strike on 1-1/4" centers and 3-5/16" centers on latch. Has provision for padlocking. Latch and strike 13-1/8" overall.

No.	Description
17125	Latch Including Inside Release Handle Only
17126	Adjustable Strike Only 1-1/8" to 1-5/8"
17128	Extra Push Rod

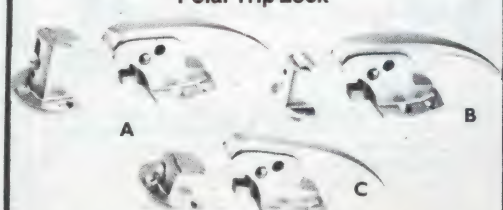
Walk In Cooler Lock



Offset strike adjustable from 11/16" to 1-1/2", 14" length. Cadmium plated.

No.	Description
17240	Walk In Cooler only
17241	Strike
17221	Push Rod

Polar Trip Lock



Chrome finish available in Flush to 1-1/4" offset.

No.	Fig.	Description
17242	A	Trip Lock (only)
17243	A	Strike 5/8" to 1-1/4" Offset
17244	B	Strike 5/16" to 9/16" Offset
17245	C	Strike Flush to 5/16" Offset
17246	A	Trip Lock only
17247	A	Strike 3/4" to 1-1/4" Offset

Heavy Duty Hinges



Ball bearing hinge is cadmium plated, 1/4" steel strap is 28" long by 4" wide. Countersunk holes for 16 screws. Cast iron bracket is 6-7/8" high x 4" wide. Drilled for 3/8" bolts. Steel pin is 9/16" x 5". Steel washers. Offset 1-1/8".

No.
17230

Heavy Duty Hinges



With ball bearing hinge has iron bracket 6-7/8" high x 4" wide. Steel pin is 9/16" diameter x 5" long. Steel washers. Bracket has holes for 3/8" bolts. Strap has holes for 1/4" screws. Cadmium plated. Offset 1-1/8".

No.
17231

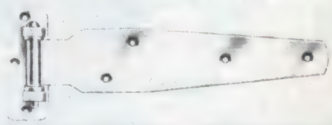
Cam Hinges



Reversible cam lift hinge is designed where irregular floors interfere with operation of doors. Precision engineering cams lift door, eliminates sag. 1/2" maximum lift. 21" long x 4" wide x 166 thick strap. Malleable iron brackets 7-1/2" high x 4" wide. Drilled for 3/ 8" bolts 9/16" steel pin. Cadmium plated 9-1/4 lbs. Offset 1-1/8".

No.
17232

Heavy Duty Cold Storage Hinge For Walk In Cooler and Freezers



Iron Cast, cadmium plated bracket. 1/8" steel electro galvanized strap 14" long by 3" wide. 3/8" diameter steel pin 3-7/16" long. 3/8" x 5/16" nylon thrust bearing.

No.
17228

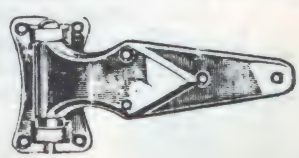
Heavy Duty Hinges for Walk In Coolers and Freezers



166 strap x 21" long x 4" wide. 9/16" x 5" long steel pin. Offset 1-1/8".

No.
17229

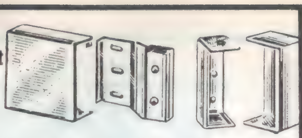
Single Bearing Walk In Cooler Hinges



These cooler hinges are single ball bearing and are supplied in cast iron with a zinc plated finish. Has removable pin.

No.	Blade	Offset	No.	Blade	Offset
17550	9"	7/8"	17547	12"	1-1/4"
17551	9"	1"	17556	17"	7/8"
17552	9"	1-1/8"	17557	17"	1"
17553	12"	7/8"	17558	17"	1-1/8"
17554	12"	1"	17548	17"	1-1/4"
17555	12"	1-1/8"			

Magna-Latch for Replacement Door Latches



The replacement refrigerator door latch. Magnet with cover 3-1/8" wide 3" high and 1-3/16" deep. Strike and cover 1-9/16" square and 3-3/16" high. White Finish.

No.	Max. Magnetic Holding	No.	Max. Magnetic Holding
27080	60 Lb.	**27082**	120 Lb.

Compact Magna-Latch



4-3/4" long and 9/16" high. Supplied with cadmium plated strike plates. White Finish.

No.	Approx. Pull
27086	35 Lb.

Roller and Trigger Grip Latch for Refrigerator Doors and Drawers



Latch 5-13/16" overall and 1-5/16" wide.

No.	Description	No.	Description
17112	Latch Housing Only	**17113**	Strike Only

Kason Door Pulls



Door pulls made from high pressure zinc die castings with plated chromium finish.

No.	Style	Overall	Screw Hole Centers	Screw Threads
17189	B	5-7/8"	5"	1/4-20

Jarrow Rubber Door Gasket

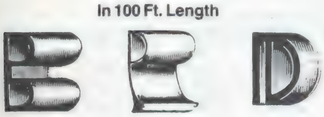


A B C

Supplied in 12 ft. lengths.

No.	Fig.	Cushion High (Size In Inches)	Cushion Wide	Bottom Wide
23143	A	1/4	1/4	3/4
23146	A	5/16	1/2	7/8
23147	A	1/2	11/16	1-3/8
23148	A	3/8	5/8	1-5/16
23150	B	3/8	5/8	1
23137	C	1/2	1/2	1-1/4

In 100 Ft. Length



E K AA

No.	Fig.	Cushion High (Size In Inches)	Cushion Wide	Bottom Wide
23155	E	1/4	5/16	3/4
23193	AA	5/8	1/2	1/2



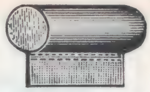
AF AZ BB

No.	Fig.	Cushion High (Size In Inches)	Cushion Wide	Bottom Wide
23198	AF	7/16	5/8	11/16
23199	AF	3/8	5/8	13/16
23131	AF	9/16	3/4	1
23261	BB	5/8	3/4	3/4

In 100 Ft. Length

No.	Fig.	Cushion High	Cushion Wide	Bottom Wide
49181T	AF	9/16	3/4	1

Inner Seal Door Gasket



Sponge rubber cushion molded around a wire grid that extends the width of the flange.

25 Ft. Reel Only

No.	Cushion Diam	Flange Wide	Overall Wide
49373	5/16"	7/16"	3/4"
49374	7/16"	1/2"	15/16"
49375	1/2"	1/2"	1"
49376	1/2"	3/4"	1-1/4"

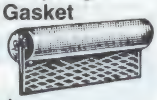
100 Ft. Reel Only

No.	Cushion Diam.	Flange Wide	Overall Wide
49362	1/2"	1/2"	1"
49363	1/2"	3/4"	1-1/4"

Heavy Duty Inner Seal Gasket

No.	Cushion Diam.	Flange Wide	Overall Wide
49365	9/16"	3/4"	1-5/16"

Rubberized Fabric Covered Sponge Rubber Cushion Door Gasket

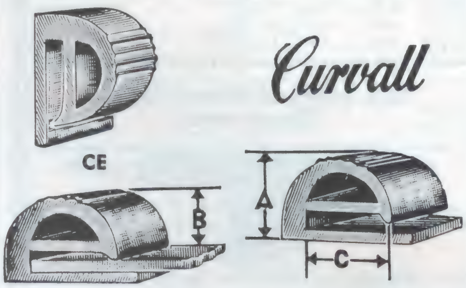


Best gasket for low temperature boxes. Black only.

With Grease Proof Covering
25 Ft. Reel Only

No.	Cushion Diam.	Flange Width
49384	3/8"	5/16"
49385	1/2"	3/8"
49386	5/8"	5/8"

Jarrow Curved Form Refrigerator Gasket



Built in curve of Jarrow's gasket fits around the curved tops of most refrigerators without cutting or notching. Gaskets are all 14 ft. long.

No.	Fig.	A Cushion High	B Cushion High	C Cushion High
23231	CE	7/16"	11/32"	19/32"
23232	CE	15/32"	3/8"	19/32"
23233	CE	15/32"	3/8"	21/32"
23234	CE	1/2"	13/32"	5/8"
23235	CE	1/2"	13/32"	11/16"
23237	CE	17/32"	7/16"	13/16"
23238	CE	9/16"	15/32"	21/32"
23240	CE	19/32"	1/2"	3/4"

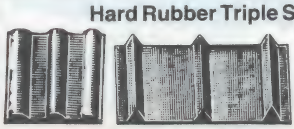
Replacement Gasket For G.E. Button Type Gasket



Two 6 ft. lengths in a box. 1/2" wide, 1/4" high.

23192

Hard Rubber Triple Seal

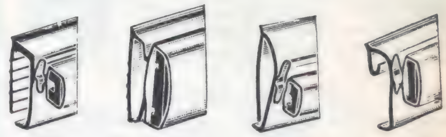


F G

10 ft. lengths

No.	Fig.	Bead	Wide	High
23217	F	3	1-7/32"	5/32"
23218	G	3	3"	1/4"

Jarrow Magnet-All Replacement Refrigerator Door Gasket

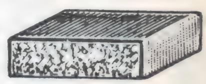


A B C D

4 "L" Pieces Per Gasket. Each "L" Piece 1/2 Size of Maximum Frame Size

No.	Jarrow	Fig.	Cushion High	Wide	Sizes In Inches Max. Frame Size
			Magnet 3/8" Wide		
49176	2001	A	3/4	3/4	20 x 30
49177	2002	A	3/4	3/4	32 x 42
49178M	2003	A	3/4	3/4	32 x 55
49300M	2004	A	3/4	3/4	37 x 87
49301	Same As Above But In 1 Piece 14 Ft. Long				
49323	2203	C	1	3/4	32 x 55
49324	2204	C	1	3/4	37 x 87
			Magnet 7/16" Wide		
49328	2304	D	13/16	5/8	37 x 87
			Magnet 3/4" Wide		
49333	3103	B	9/16	7/8	32 x 55
49334	3104	B	9/16	7/8	37 x 87

Heavy Duty Neoprene Covered Sponge Rubber Sealing Strip

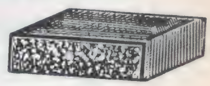


Use Jarene cement to cement permanently to glass, wood, or metal.

30 Ft. Rolls

No.	High	Wide	No.	High	Wide
23205	3/8"	7/8"	**23207**	1/2"	3"
23206	3/8"	1-1/4"			

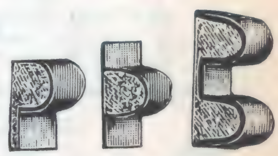
Dependo Sponge Rubber Insulating Strips



30 Ft. Rolls

No.	Thickness	Width	No.	Thickness	Width
27740	1/4"	2"	**27743**	3/8"	3"
27741	1/4"	3"	**27744**	1/2"	3"
27742	3/8"	2"			

Neoprene Covered Sponge Rubber Door Gasket



BG BH BJ

25 Ft. Reel Only

No.	Fig.	Cushion High	Cushion Wide	Bottom Wide
49379	BG	1/4"	5/16"	5/8"
49380	BG	3/8"	1/2"	15/16"
49381	BG	1/2"	1/2"	15/16"
49382	BH	3/8"	1/2"	15/16"

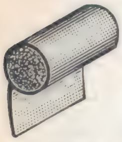
50 Ft. Reel Only

No.	Fig.	Cushion High	Cushion Wide	Bottom Wide
49383	BJ	1/2"	1/2"	1-3/8"

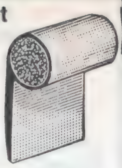
SEE SEPARATE PRICE LIST

Gaskets/ Heaters

Sponge Rubber Gasket With Vinyl Cover


Fig. A

Highly resistant to oils, grease, detergents, and fats. It is weatherproof making it good for refrigerated trucks or railroad cars. With flange at side Fig. A.


Fig. B

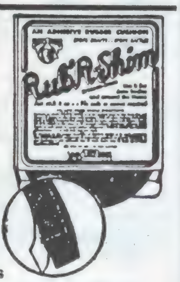
25 Ft. Reel Only

No.	Cushion High	Flange Wide	Overall Wide
49369	3/8"	1/2"	7/8"
49370	1/2"	1/2"	1"
49371	5/8"	5/8"	1-1/4"
Same as above but with flange at bottom Fig. B.			
49372	1/2"	3/4"	1-3/16"

100 Ft. Reel Only

No.	Cushion High	Flange Wide	Overall Wide
49352	3/8"	1/2"	7/8"
49353	1/2"	1/2"	1"
49354	5/8"	5/8"	1-1/4"
Same as above but with flange at bottom Fig. B.			
49355	1/2"	3/4"	1-3/16"

Rub'r-Shim Sponge Rubber Cushion Shim

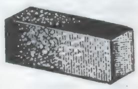


Has a tacky adhesive on one side that will stick and stay stuck to wood, metal, glass and other surfaces.

50 Ft. Lengths

No.	Wide	Thick	No.	Wide	Thick
27721	3/8"	5/16"	**27727**	3/4"	5/16"
27723	1/2"	5/32"	**27728**	3/4"	7/16"
27724	1/2"	5/16"	**27729**	1"	5/32"
27725	1/2"	7/16"	**27730**	1"	5/16"
27726	3/4"	5/32"	**27731**	1"	7/16"

Polyurethane Strip For Installation Of Window Air Conditioners



27754U About 1-1/4"x1-1/4"x42"

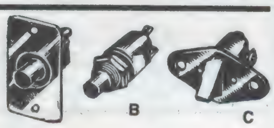
Jarene Cement



Is made to bond rubber to metal, wood or painted surfaces.

No.	Size
23225	1 Pint

Flush Mounting Door Switch


A B C

No.	Fig.	Description
21019	A	Plate 1-7/8" Long
21020	B	One Hole Mtg.
21021	C	Rocker

Toggle Switch



Rated 10A 250V, 15A 125V. Cap 3/4 HP, 115/230V AC.

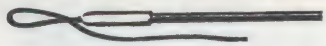
No.	Wide	Long	Off Posit.	Switch
21040	5/8"	13/16"	Yes	SPST
21041	5/8"	13/16"	Yes	SPDT
21043	3/4"	1-5/16"	Yes	DPST
21044	3/4"	1-5/16"	Yes	DPDT

Mars "Super - Fit Switch"

Replaces 11 switches with round hole mounting.

No.	Function	Replaces
38672	Fan & Light	167, 168-1, 180, 182, 183, 188-1, 188-2, 188-9, 188-10, 188-15.

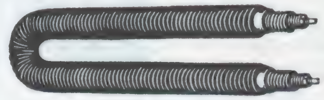
Heatrex Tubular Straight Length Heaters



Molded moisture proof terminals with 24" pigtail leads. Made of 1/4" Incoloy annealed steel tubing to permit bending to fit. May be bent with a tube bender on 3/4" radius to space the tubes on 1" centers. Overall length figured without the leads.

No.	Watts	Volts	Overall Length
61430G	300W	120V	45"
61431G	450W	120V	68"
61432G	675W	120V	91"
61433G	675W	240V	91"
61434G	850W	120V	105"
61435G	850W	240V	105"
61436G	1000W	240V	118"
61437G	1250W	240V	188"
61438G	1350W	240V	150"
61439G	1500W	240V	216"

Heatrex Finned Tubular Heaters



Continuous spiral edge wound steel fin brazed to a tubular heater gives maximum transfer surface. These V shaped finned tubular heaters have 10/32 threaded terminals and are finished in high temperature aluminum paint. Cold ends about 2-1/2".

No.	Watts	Volts	Length
61412	2000	240V	14-1/2"
61413	2500	240V	14-1/2"
61414	3000	240V	14-1/2"
61415	4000	240V	18-5/8"
61416	4000	480V	18-5/8"

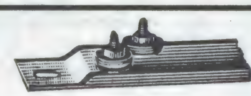
Heatrex Finned Electric Heaters Defrost Units



Aluminum tubes and fins with a molded rubber terminal at one end. Finned length is about 3" less than overall length.

No.	Overall Length	Watts	Volts	OD Fins
19" Leads				
61485G	72"	1700	220	1-1/4"
61486G	120"	2400	220	1-1/4"
24" Leads				
61488G	42"	1500	230	1-1/2"
61489G	67"	1900	230	1-1/2"
61490G	67"	3000	230	1-1/2"
61491G	113"	2900	230	1-1/2"

Chromalox Strip Heaters

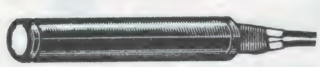


Quality coiled nickel-chrome resistor wire uniformly spaced over the width and length. Both terminals are at one end. Width 1-1/2" with mounting hole centers 1" less than overall length.

For Sheath Temperatures up to 750°F Maximum Rust Resisting Iron Sheath With Both Terminals at One End

120V	Watts	Overall Length	240V	Watts	Overall Length
65400	125	5-1/2"	**65503**	250	12"
65407	750	23-3/4"	**65505**	500	17-7/8"
			65506	500	23-3/4"

Heatrex-Cartridge Heaters



Heating up to 600°F. with direct contact material being heated. Leads are 10" of stranded magnesium nickel wire with Teflon asbestos and fiber glass cover impregnated with silicon.

No.	Watts	Length Sheath
61474	200	16"
61475	400	19"
61476G	500	25"

HACO Heat Flexible Copper Tube Heater



1/4" flexible copper tube that is waterproof and safety grounded. Six feet of #18SJO 3-wire cold lead cord is hermetically sealed to the copper tube with the opposite end crimped and sealed. Element is gas and watertight.

No.	Heater Long	Volt	Watts	Amps
67400	5 Ft.	120V	50W	0.4A
67401	10 Ft.	120V	100W	0.8A
67402	15 Ft.	120V	150W	1.3A
67403	20 Ft.	120V	200W	1.7A
67404	5 Ft.	120V	100W	0.8A
67405	10 Ft.	120V	200W	1.7A
67406	15 Ft.	120V	300W	2.5A
67407	20 Ft.	120V	400W	3.4A
Cords on 240V Heaters Have Stripped Ends				
67408	5 Ft.	240V	50W	0.2A
67409	10 Ft	240V	100W	0.4A
67410	15 Ft.	240V	150W	0.6A
67411	20 Ft.	240V	200W	0.8A
67412	5 Ft.	240V	100W	0.4A
67413	10 Ft.	240V	200W	0.8A
67414	15 Ft.	240V	300W	1.2A
67415	20 Ft.	240V	400W	1.7A

HACO Flexible Heating Tape



1/2" wide protected by a polyvinyl cover. The tape has a fuse type alloy wire which will fuse and open circuit if the tape is damaged or overheated, with wire connection and safety fuse. Sheath temperature 176°F. without plug connection. UL. Listed.

No.	Watts	Volts	Long
25460	167W	120V	20 Ft.
25843	335W	120V	40 Ft.

Two wire heating band with maximum sheath temperature 194°F. uses about 7 watts per linear foot. With standard plug.

No.	Watts	Volts	Long
25461	42W	120V	6 Ft.
25462	84W	120V	12 Ft.
25475	126W	120V	18 Ft.
25476	168W	120V	24 Ft.
25481	280W	120V	40 Ft.
25482	420W	120V	60 Ft.
25844	700W	120V	100Ft.

Same as above but with stripped ends

No.	Watts	Volts	Long
25858	84W	240V	12 Ft.
25859	126W	240V	18 Ft.
25860	168W	240V	24 Ft.
25861	210W	240V	30 Ft.
25862	252W	240V	36 Ft.
25863	336W	240V	48 Ft.
25864	420W	240V	60 Ft.

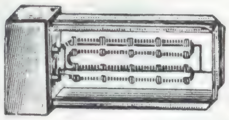
Two wire heating tape with built in thermostat pre-set at 38°F., turns off automatically when temperature rises. Complete with 2 ft. cold lead cord and plug set.

No.	Watts	Volts	Long
25463	42W	120V	6 Ft.
25464	84W	120V	12 Ft.
25477	126W	120V	18 Ft.
25478	168W	120V	24 Ft.
25479	280W	120V	40 Ft.
25480	420W	120V	60 Ft.
25845	700W	120V	100 Ft.

SEE SEPARATE PRICE LIST

You surely have noticed there are no prices shown in this catalog. Call the Alter location of your choice for our most current price list.

Duct Heaters



Quiet operation contactor for primary. U.L., listed zero clearance design. CSA recognized built to NEC requirements. Complies with City of Chicago Electrical Code. Built to 1984 Revised U.L. 1096 Standard. Comes complete with disconnecting type control contactors(s) which open each power line, and disconnects power source. Has a door interlock and/or a selected barrier to protect personnel from electric shock hazard. Control voltage 24V transformer and fan interlock built-in. Feature: Galvanized steel construction for durability, high nickel content chrome alloy resistance wire, mechanically staked and heliarc welded to corrosion resistant terminals for reliability, durable steaxite ceramic insulator for reliability, primary auto-reset high temperature cutout and secondary manual-reset high temperature cutout for safety.

Quiet Contactor Controlled Duct Heaters With 24 Volt Transformer and Fan Interlock
120 Volt 1 Phase 24 Volt Control One Stage

No.	Kilo-Watts	BTU Per Hr.	Amps	Duct WidexHigh
65140	1.0	3410	8.3A	8"x6"
65141	1.5	5115	12.5A	10"x8"
240 Volt 1 Phase 24 Volt Control One Stage				
65142	2.8	9550	11.6A	10"x8"
65143	5.0	17050	20.8A	16"x8"
65144	5.0	17050	20.8A	14"x10"
65145	7.5	25500	31.3A	20"x8"
65147	7.5	25500	31.3A	14"x10"
240 Volt 1 Phase 24 Volt Control Two Stage				
65148	9.5	32400	39.6A	16"x8"
65149	9.5	32400	39.6A	20"x8"
65151	9.5	32400	39.6A	14"x10"
65152	9.5	32400	39.6A	18"x12"
65153	11.5	39200	47.9A	20"x8"
65154	11.5	39200	47.9A	24"x8"
65155	11.5	39200	47.9A	14"x10"
65156	11.5	39200	47.9A	18"x12"
240 Volt 1 Phase 24 Volt Control 2 Stage Fused				
65158	15.0	51150	62.5A	20"x8"
65159	15.0	51150	62.5A	24"x8"
65160	15.0	51150	62.5A	14"x10"
65161	15.0	51150	62.5A	18"x12"
65162	15.0	51150	62.5A	22"x12"
240 Volt 3 Phase 24 Volt Control One Stage				
65163	5.0	17050	12.1A	16"x8"
65164	10.0	34100	24.1A	20"x8"
65165	10.0	34100	24.1A	24"x8"
65166	10.0	34100	24.1A	27"x8"
65167	10.0	34100	24.1A	18"x12"
65168	11.5	39200	27.7A	18"x12"
65231	19.5	67530	47.6A	18"x12"
240 Volt 3 Phase 24 Volt Control Two Stage				
65169	15.0	51150	36.1A	20"x8"
65170	15.0	51150	36.1A	27"x8"
65171	15.0	51150	36.1A	18"x12"
480 Volt 3 Phase 24 Volt Control One Stage				
65174	5.0	17050	6.0A	16"x8"
65175	10.0	34100	12.0A	20"x8"
65176	15.0	51150	18.0A	18"x12"
65177	20.0	68200	24.1A	18"x12"

Additional Option

Where local requirements include the additional control of an air flow pressure differential type switch, this may be supplied all wired and mounted at an additional cost when ordered at the same time as the coil heater. Allow an additional 4 weeks for delivery after our receipt of your order.

Air Flow Pressure Differential Switch Installed On Above Coils

Silicone Drain Tube Heaters



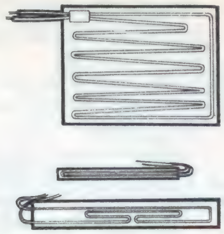
29521



29522

No.	Description
29521	3" Heater tip 8 watts 115 volts
29522	2" Heater tip 7-1/2 watts 115 volts

Aluminum Foil Heaters with Pressure Sensitive Adhesive Backing



115 Volts, 60C., 1 Phase

No.	Length	Width	Lead	Watts
29515	10"	1"	1-24" 1-12"	6
29516	24"	1-1/4"	1-24" 1-48"	10
29517	14-1/2"	5-1/2"	30" Ea.	10
29518	27-1/2"	5-1/2"	1-24" 1-48"	65
29519	10-1/2"	10-1/2"	24" Ea.	15
29520	10-1/2"	10-1/2"	24" Ea.	40

Nichrome Replacement Coils



60% nickel and 16% chromium is used on heating units operating up to 1700°F.

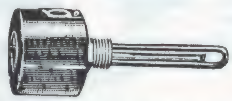
Cutting Table

These are the recommended lengths to cut the coils to secure the desired wattage. Allow an extra amount about 3/4" to make the connections. Packaged in 10 ft. lengths but not wound on spool.

No.	Watt	Cut	Volts
28900	500	16-1/2"	115

No.	O.D.	Wire Gauge	For Watts
28900	6/32"	No. 22	500-650W

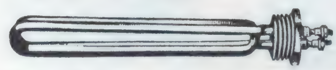
Water Heater



Fits standard 1" Fem. IPT. Will raise about 5 gal. water an hour from 60°F to 140°F. in a well insulated hot water tank per 1000 Watts.

No.	Volts	Watts	Min. Inside
25980	120	1000	6-3/8"
25981	240	1000	6-3/8"
25982	120	1500	9-1/4"
25983	240	1500	9-1/4"
25809G	240	3000	19-7/8"

Utility Hot Water Unit With Screw Plug



1" Male IPT With 1-1/2" Hex. Single Loop

No.	Watts	Volt	Length In Tank
25785	1500	120	9-3/4"
RTMW 1-1/4" Male IPT With 1-3/4" Hex. Fold Back Loop			
25790	2000	240	12-3/4"
25792	3000	240	19-7/8"

Polyethylene Coated Duct Tape

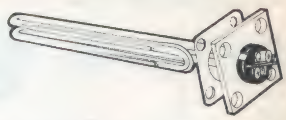
No.	Width	Length
29876	1-1/2"	180 ft.
29877	2"	180 ft.
29878	3"	180 ft.

Plastic Electrical Tape

3/4" wide, 66 ft. long

3198

Immersion Heaters for Hot Water Units



Type	Flange	Size	Bolt Holes Centers	Circle Diam.	Size Hole
TGA	4 Bolt	2-1/2" Sq.	1-49/64"	2-1/2"	7/16"

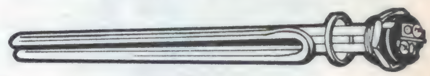
TGA 4 Bolt 2-1/2" Sq. Flange One Loop With Flange Gasket Only Tin Plated Flange For Glass Lined Tanks

No.	Watts	Volts
25700	1000	120
25701	1500	120
25705	1500	240
25707	2000	240
25708	2500	240
25709	3000	240
25710	4000	240
25711	4500	240
25712	5000	240
25713	6000	240

Gaskets For TGA Water Heaters

No.	Description
25855	TG8TA Gasket For Twist Lock Flange
25856	TG17R Gasket For Glass Lined Tank
25857	TG19S St of 4 Screws Per Set
25647	TG27T

Screw in Water Heater Elements With Adapt-O-Matic Flanges



One inch straight pipe thread without taper.

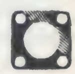
No.	Watts	Volts	No.	Watts	Volts
25866	1000	120	**25874**	2500	240
25867	1250	120	**25875**	3000	240
25868	1500	120	**25876**	3500	240
25870	1000	240	**25877**	4000	240
25872	1500	240	**25878**	4500	240
25873	2000	240	**25879**	5000	240

Adapt-O-Flanges



No.	Shape	Bolt Hole Diam. Circle	Bolt Hole Center
25881	Square	2-1/2"	1-49/64"
25882	Square	2-3/4"	1-15/16"

Gasket For TGA



No.	Size
25793	2-1/2" Sq.

HACO Aluminum Duct Tape

This aluminum duct tape is 2 mil thick with a high tack adhesive. Dead soft to easily conform to seal fiber glass ducts or aluminum backed duct insulation materials. Waterproof and vaporproof. Makes a permanent seal.

No.	Width	Length
29870	2"	150 ft.
29871	2-1/2"	150 ft.

Waterproof Cloth Vinyl Duct Tape

Meets govt. spec. PPT 160. All rolls are 180 ft. long.

No.	Size
27749	1-1/2"
27750	2"
27751	3"

Strapping Tape

No.	Size
29874	3/4"

SEE SEPARATE PRICE LIST

Tapes

All Weather Plastic Electrical Tape



Won't crack or harden at temperatures as low as -30⁰F. or soften at temperatures to 220⁰F.

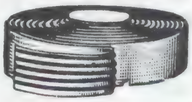
No.	Size
29849	3/4" x 66 ft.

Permagum Sealing Compound



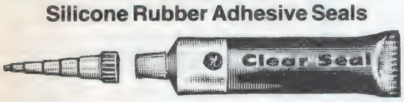
No.	Size
22202	2 Lb. Pkg.

Permagum Corded Compound



No.	Size	Length
24215	3/16"	100 ft.
24216	3/8"	25 ft.

Silicone Rubber Adhesive Seals



No.	Material	Color
61014	Clear Seal	Transparent
61015	Metal Seal	Aluminum
61016	Bathtub Seal	White
61017	Auto Seal	Black



Silicone Cartridge Containers For Caulk Guns

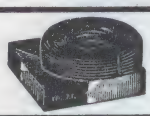
Same as above but in cartridge containers for use with standard caulk guns.

No.	Color	Size of Tube
61073	Transparent	10.3 oz.
61074	Aluminum	10.3 oz.
61075	White	10.3 oz.
61076	Black	10.3 oz.

All Weather Paintable Silicone Caulk

No.	Color	Size of Tube
61068	White	10.3 oz.

Mortite Caulking Cord



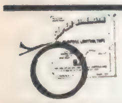
24793 100 Ft. Roll, 3/16"x8 Strands

Mortite Caulking Gum



24794 2 Lb. Slug

All Purpose Control Tape



No.	Size
18100	¾" wide x 3 feet long x 1/16"

Adhesive Tape

Waterproof, vaporproof permanent seal adhesive is used to seal joints on fiber glass duct board systems or insulation on duck work. Meets SMACNA Std. AFTS-100-73 and AFTS-101-73, UL Listed.

No.	Size
29860	2-1/2" Tape

No Drip Plastic Coating



One gal. covers 6 sq. ft. 1/4" thick.

No.	Size	No.	Size
24783	Gal.	**24784**	5 Gal.

X-Pando Pipe Joint Compound For Flanged or Threaded Joints

No.	
18113	X-Pando Compound 1 Lb. Can

Slic-Tite Stick



29230

Epoxy Leak Seal for Aluminum and Joining Metal to Metal

Joins metal to metal and repairs leaks in aluminum evaporators or condensers.

No.
18134

Devcon Epoxy Plastic Steel Repair Kit

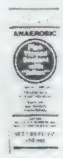


80% aluminum, 20% epoxy.
19708 1 Lb. Pkg.

Devcon Plastic Stainless Steel Kit

80% stainless steel and 20% epoxy
19716

Anaerobic Pipe Thread Sealant with Teflon



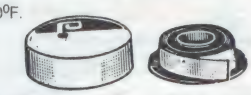
Temp. —65⁰F. to +400⁰F. DO NOT USE ON OXYGEN.

No.	Description
29250	.2 Fluid Oz.
29251	1.69 Fluid Oz.

Teflon Ribbon Dope Thread Sealant

Seals from —450⁰F. +500⁰F.

No.	Size
29840	1/2" x 260"
29841	1/4" x 520"
29842	1/2" x 520"



Mortite No Drip Tape

24792 30 Ft. Roll 2" x 1/8"

Flashband Sealing Strip

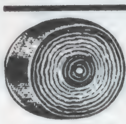


No.	Size	Pkg.
24761	33 ft. x 3"	4

Presstite Insulation Tape

24214 2"x1/8"x30 ft.

Wrap-On Insulation



Fiber glass and tape is 35 ft. long. The 3" width covers about 23 ft. of 1/2" pipe.

No.	Fiberglass Width	Tape Width
24217	3"	2"

Devcon Epoxy Plastic Aluminum



80% aluminum, 20% epoxy will seal holes in aluminum tubing or evaporators; will bond steel, aluminum, brass, wood and porcelain to each other or themselves. Will harden in 2 hours at 70⁰F. and faster if heated with a heat lamp. May be drilled, tapped or machined.
19701 One Pound Aluminum Epoxy

Devcon Epoxy Plastic Aluminum Repair Kit

This kit is 80% aluminum with 20% epoxy plastics and modifiers. Used for filling, sealing, caulking, or bonding. Will repair small holes in aluminum tubing or evaporators.
19700

General Purpose Underwater Epoxy Putty



Use on dry or wet surfaces for quick repairs.
18155

Polyethylene Black Cloth Dri-Cel Tape

Pressure sensitive, waterproof polyethylene impregnated cotton black tape to match Dri-Cel insulation. Used in place of cement to join the Dri-Cel ends of tubing and seal out moisture.

No.	Wide	Long
64686	1-1/2"	180 Ft.
29875	2"	180 Ft.

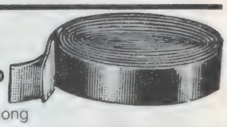
Dri-Cel Adhesive



Will cement Dri-Cel insulation or any rubber product, paper, cloth or wood to themselves or to each other.

No.	Size	No.	Size
64680	1/2 Pint	**64682**	1 Quart
64681	1 Pint	**64683**	1 Gallon

Dri-Cel Sealed Cell Insulation Pipe Wrap



64607 1/8" thick 2" wide 30 ft. long

Insulation For Copper and Iron Pipe Wrap

3/8" Wall Thickness—6 Ft. Lengths—For OD Add 3/4" to ID

No.	Size I.D.	Feet Per Ctn.	No.	Size I.D.	Feet Per Ctn.
64610U	3/8"	456	**64614U**	7/8"	240
64611U	1/2"	360	**64616U**	1-1/8"	360
64612U	5/8"	294	**64617U**	1-3/8"	276
64613U	3/4"	270	**64618U**	1-5/8"	204
			64619U	2-1/8"	150

3/8" Wall Thickness For Iron Pipe Sizes For Iron Pipe Sizes Under 3/4" IPS See Table

No.	Size I.D.	Feet Per Ctn.	No.	Size I.D.	Feet Per Ctn.
64611U	1/4"	IPS 360	**64623U**	3/4"	IPS 150
64612U	3/8"	IPS 270	**64618U**	1-1/4"	IPS 180
64614U	1/2"	IPS 210	**64625U**	1-1/2"	IPS 150
			64626U	2"	IPS 96

1/2" Wall Thickness—6 Ft. Lengths—For OD Add 1" to ID

No.	Size I.D.	Feet Per Ctn.	No.	Size I.D.	Feet Per Ctn.
64630U	3/8"	318	**64636U**	1-1/8"	264
64631U	1/2"	258	**64637U**	1-3/8"	210
64632U	5/8"	240	**64638U**	1-5/8"	168
64633U	3/4"	198	**64639U**	2-1/8"	120
64634U	7/8"	360	**64640U**	2-5/8"	96
			64641U	3-1/8"	72

1/2" Wall Thickness For Iron Pipe Sizes For Iron Pipe Sizes Under 3/4" IPS See Table

No.	Size I.D.	Feet Per Ctn.	No.	Size I.D.	Feet Per Ctn.
64631U	1/4"	IPS 240	**64638U**	1-1/4"	IPS 150
64632U	3/8"	IPS 210	**64645U**	1-1/2"	IPS 150
64633U	1/2"	IPS 360	**64646U**	2"	IPS 96
64634U	3/4"	IPS 240	**64647U**	2-1/2"	IPS 72
			64648U	3"	IPS 54

3/4" Wall Thickness-6 Ft. Lengths-For OD Add 1-1/2" to ID

No.	Size I.D.	Feet Per Ctn.	No.	Size I.D.	Feet Per Ctn.
64650U	3/8"	198	**64654U**	7/8"	228
64651U	1/2"	180	**64656U**	1-1/8"	150
64652U	5/8"	120	**64657U**	1-3/8"	144
64653U	3/4"	108	**64658U**	1-5/8"	120
			64659U	2-1/8"	96

3/4" Wall Thickness For Iron Pipe Sizes For Iron Pipe Sizes Under 3/4" IPS See Table

No.	Size I.D.	Feet Per Ctn.	No.	Size I.D.	Feet Per Ctn.
64651U	1/4"	IPS 150	**64663U**	3/4"	IPS 150
64652U	3/8"	IPS 120	**64658U**	1-1/4"	IPS 114
64654U	1/2"	IPS 210	**64665U**	1-1/2"	IPS 84
			64666U	2"	IPS 72

Dri-Cel The Sealed Cell Insulation

Sheets 36" x 48"

No.	Thick	Sheets Per Carton
64691G	3/8"	18
64692G	1/2"	13
64693G	3/4"	9

SEE SEPARATE PRICE LIST

HACO Thermostat Wire



Solid wire sold only per spool. Low Voltage.

No.	AWG Size/ Cond. No.	Approx. O.D.	Feet/ Spool	Wt. Lbs./ Spool
80470	18/2	.166"	500	9
80471	18/3	.177"	500	12.5
80472	18/4	.194"	250	8
80473	18/6	.224"	250	12
80474	18/8	.261"	250	14
80475	18/5	.214"	250	10

Buss Fusetrons Plug Fuses



Edison base 125V.

No.	Amp.	No.	Amp.
6506	2	**6520**	10
6510	3.2	**6521**	12
6512	4	**6522**	15
6514	5	**6523**	20
6516	6.25	**6524**	25
6518	8	**6525**	30

Buss Fustats

Electric refrigerator motors should be fused at least 20% greater than the ampere rating of the motor.

No.	Amp.	No.	Amp.
6566	2.0	**6580**	10.0
6570	3.2	**6556**	15.0
6574	5.0	**6557**	20.0
6576	6.25	**6559**	30.0
6578	8.0		

Buss Fustat Box Cover



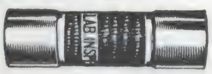
No.	Cover With	Size	For Box
6481	Switch	2¼"	Handy
6483	Switch	4"	4" Square
6484	Receptacle	2¼"	Handy

Buss Fusetron Cartridge Fuse



2" Overall 250V No.	Amp.	3" Overall 250V No.	Amp.
6552	15	**6456**	35
6554	20	**6800**	40
6454	25	**6801**	45
6455	30	**6802**	50
		6460	60

Buss Cartridge Fuses



½" diameter.

2" Overall 250V. No.	Amp.	3" Overall 250V. No.	Amp.
6734	15	**6700**	35
6735	20	**6701**	40
6737	30	**6702**	45
		6704	60

Cartridge Fuse With Blade Ends 5⅞" Overall 250V

No.	Amp.
6708	100

Hanger Strap Zinc Plated Steel



No.	Feet	Wide	Gauge	Cap.
652	100	¾"	# 24	190 lbs.
653	100	¾"	# 20	280 lbs.

Perforated Copper Strap

No.	Feet	Wide	
660	25	¾"	Wide

Solid Copper Pipe Straps



No.	OD Tube	No.	OD Tube
6437	⅜"	**6442**	1⅛"
6438	½"	**6443**	1⅜"
6440	⅝"	**6444**	1⅝"
6441	⅞"	**6445**	2⅛"

Plated Steel Straps For Copper Tubing



No.	For Tube	No.	For Tube
14160	¼"	**14163**	⅝"
14161	⅜"	**14164**	¾"
14162	½"	**14165**	⅞"

Dexion Slotted Angle



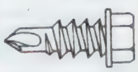
Single Lengths Without Bolts, Nuts Or Corner Plates

No.	Dexion	Size	Long
61100N	225S	2¼"x1½"x.08"	10 Ft.
61108N	140S	1⅜"x1⅜"x.07"	10 Ft.

Dexion Bolts And Nuts

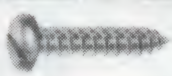
No.	Size	No.	Size
61140	5/16"x5/8"	**61142**	3/8"x1"
61141	5/16"x3/4"		

Malco Bit-tip Drill & Tap Screws



No.	Screw Size	Driver Size	No.	Screw Size	Driver Size
710	6-32x⅜	2	**717**	10-16x¾	5/16
711	8-18x½	¼	**718**	10-16x1	5/16
712	8-18x⅝	¼	**720**	12-14x¾	5/16
713	8-18x¾	¼	**721**	¼-14x¾	⅜
714	8-18x1	¼	**722**	¼-20x1	⅜
715	10-16x½	5/16	**723**	¼-20x¾	⅜
716	10-16x⅝	5/16			

MALCO Slotted Pan Head Screws



Hand driving, all fastening application sheet metal screws. Zinc plated steel.

No.	Size	No.	Size
679	6x⅜	**684**	10x½
680	7x½	**685**	10x¾
681	8x½	**686**	10x1
682	8x¾	**687**	10x1¼
683	8x1		

MALCO Zip-In Screws



Sophisticated heat treat process allows the screw to taper to a fine, sharp point without sacrificing critical driving. With a greater capacity for fastening heavier gauges of sheet metal than any other self drilling types. ¼" size.

No.	Size	No.	Size
670	6x⅜z	**674**	8x1½z
671	7x½z	**675**	8x2z
672	8x½z	**676**	10x½z
673	8x¾z	**677**	10x¾z
		678	10x1z

Machine Screws

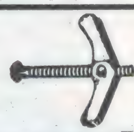
Zinc Plated Steel

No.	Round Head	Threads
688	3/16x1/2	**24**
689	3/16x3/4	**24**
690	1/4x1/2	**20**
691	1/2x3/4	**20**
692	1/4x1	**20**

Machine Screw Nuts

No.	Size	Threads
693	3/16	10-24
694	¼	20

Spring Wing Toggle Bolt With Round Head Bolts



No.	Thread	Long
292	1/4-20	4"
293	1/4-20	6"

Plastic Flange Anchor



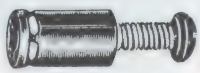
Used with sheet metal or wood screws.

No.	Screw Size	Long	Drill	Carton
20009	6-8-10	7/8"	3/16"	100
20010	10-12	1"	1/4"	100
20011	14-16	1-1/2"	5/16"	50

Carboloy Drill For ¼" Electric Drill

No.	Diam.	Long
22612	3/16"	3"
22613	1/4"	4"
22617	5/16"	4"

Machine Screw Anchor



For fastening to concrete, brick or stone. One setting tool in each box of anchors.

No.	No. Thread	Hole Diam.	Hole Deep
355	10/24	⅜"	⅝"
356	1/4/20	½"	⅞"
357	3/8/16	¾"	1¼"

Threaded Rod



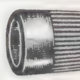
Steel 3 ft.

No.	Size
654G	1/4-20
655G	3/8-16
656G	1/2-13

Worm Drive Hose Clamps

No.	Max Diam.	Min. Diam.	No.	Max Diam.	Min. Diam.
65310	25/32"	7/16"	**65317**	2-1/4"	1-5/16"
65311	29/32"	1/2"	**65318**	2-1/2"	1-9/16"
65312	1-1/16"	9/16"	**65319**	2-3/4"	1'13/16"
65313	1-1/4"	11/16"	**65320**	3"	2-1/16"
65314	1-1/2"	13/16"	**65328**	5"	4-1/16"
65315	1-3/4"	13/16"	**65329**	6"	5-1/8"
65316	2"	1-1/16"			

Wire-Nuts



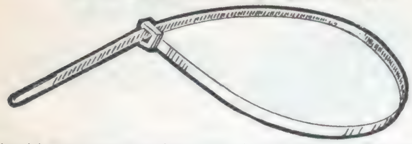
Wire Nuts Solderless Connections

No.	Color	Capacity
20031	Gray	3-18 or 2-16
20032	Blue	1 No. 14-18 or 3 No. 18
20033	Orange	2 No. 14 or 5 No. 18
20034	Yellow	2 No. 12 or 4 No. 14
20035	Red	2 No. 18-10 or No. 14

SEE SEPARATE PRICE LIST

Thermometers

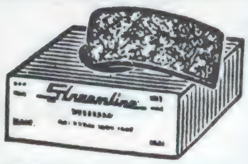
HACO Self Locking Nylon Ties



Used in temperatures from -40° F. to 185° F. 50 lbs. tensile strength.

No.	Long	Max Bundle	Per Pack
60890	7¾"	1¾" Diam.	100
60891	15⅛"	4" Diam.	50
	150 lbs. tensile strength		
60892	30"	8⅛" Diam.	25

Fast Cutting Sand Cloth



120 aluminum oxide abrasive

No.	Length
32135	30 Ft. x 1½"
32136	75 Ft. x 1½"
32137	150 Ft. x 1½"

Scotch Brite Cleaning Pad



¼" thick, 3" x 5", 10 per box.
32139

Digital Pocket Thermometer



Pocket size 9 Volt Battery powered digital thermometer designed to meet the requirements of field servicemen and lab technicians. This unit with its extremely sensitive air and surface sensor probe measures superheat, evaporator plate and condensing temperatures along with air inlet, outlet and ambient temperatures. Ideal for measuring temperature for all refrigeration, heating and air conditioning systems. From -60° F to 199° F. Read out in 7/16" high liquid crystal display with 3-1/2 digits in 1/10 increments, ±.2° F accuracy. On/Off switch standard with a temp. hold switch. High impact plastic case. Dimensions: 1½" wide x 6¾" long x ⅞" high. Weight 2¼ ounces.
60557

Digital Panel Mount Thermometers



Accuracy to ±1° F. Range -30° F to +99° F. 4" readout, reliable thermistor probe, shock resistant molded case. Use to replace analog thermometers. Can be used for cold and freezer boxes, chemical, petroleum, and energy management. Round fits standard 2¾" cut out. Rectangle fits 2-15/16" x 1-7/16" cut out.

5371 round **5372** rectangle

Accessories for Panel Mount

5380 110 Vac Power Supply
5381 Stainless Steel Screw in Probe
5382 General Purpose Probe

Digital Thermometers



Use for replacement of conventional bi-metal stem or vapor tension mechanical thermometers. Use for thru-wall or remote reading. Accuracy ±2° F. Range 0° F to 160° F. 3 hole mounting.

5367 Flange Mount, .158" diam. screw holes, 2.9" bolt circle, 5" probe length
5368 Panel-Mount, 150" diam. screw holes, 2.625" bolt circle, 48" leads

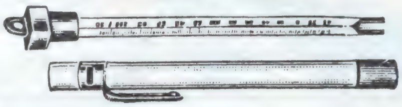
Pocket Digital Thermometers



Battery powered, large readouts, stainless steel stems, plastic sheaths with pocket clips. Use where conventional bi-metal thermometers have been used. Both are used for semi-solids, liquids, or air in work situations. Range 0° F. to 160° F. Accuracy ±2° F. 5" probe length

5369 Portable 2" head **5370** Pocket 1⅜" head

Pocket Thermometer



Black etched numerals and graduations for easy readings. 6" long, clear plastic case with pocket clip.

No.	Range	Div.
8516	-40° C to 50° C	2°
8517	-15° C to 105° C	2°
8518	-30° F to 120° F	2°
8519	0° F to 220° F	2°

Permafused Precision Quality Thermometer

Complies with the Bureau of Standards requirements for certification. All are mercury filled with a gas filled capillary above the mercury column. Scales are permanently fused to the glass having absolutely smooth finish. It becomes part of the glass and is unaffected by anything that does not attack the glass.

No.	Low	High	Div.	Length
		Total Immersion		
5355	-20°	150° C	1	12"
5356	-30°	120° F	1	12"
5357	0°	230° F	2	12"
5358	0°	300° F	2	12"
5359	20°	500° F	2	16"
		Partial Immersion 3"		
5360	-20°	110° C	1	12"
5361	-10°	260° C	1	16"
5362	-30°	120° F	1	12"
5363	0°	230° F	2	12"
5364	0°	300° F	2	12"
5365	20°	750° F	5	16"

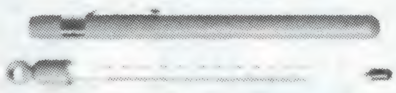
Dial Oven Thermometer



Stainless steel with 200° to 600° F. range. Hangs or stands overall 3⅜" H x 2¾" W.

5308
5306 Deluxe Model

Liquid-In-Glass



Accurate filled thermometers with clear permanent markings. In plastic case. Either red liquid or mercury filled, in two different pocket styles. 5½" length. Plastic case included.

Red Liquid No.	Range	Div.	Mercury Filled No.	Range	Div.
5332	-30° to +120° F.	2	**5337**	-30° to +120° F.	2
5333	-50° to +120° F.	2	**5338**	0° to +220° F.	2
5334	0° to +220° F.	2	**5339**	-35° to +50° C.	1
5335	-45° to +50° C.	1	**5340**	-15° to +105° C.	1
5336	-15° to +105° C.	1			

Durable Molded Case

No.	Range	Div.	No.	Range	Div.
5341	-50° to +120° F.	2	**5345**	-30° to +120° F.	2
5342	0° to +220° F.	2	**5346**	0° to +220° F.	2
5343	-45° to +50° C.	1	**5347**	-35° to +50° C.	1
5344	-15° to +150° C.	1	**5348**	-15° to +150° C.	1

Hanging or Standing Thermometer



Stainless steel case, 2" diam. Temperature zoned dual scale dial with 2° markings. Unit has a vinyl lens for added safety. Range -20° to 80° F.
5304

Refrigerator/Freezer Thermometer



Horizontal non-toxic filled glass tube. Magnifying lens. Hang, stand or permanent mounting. Dual scale 2° increments -40° to 80° F, (-40° to 26.7° C). Completely enclosed. Meets all Health Department specifications. 5" x 1.75".
5307

Maximum Registering Thermometer

Registers and maintains the maximum temperature reached during period exposed. Mercury filled. Calibrated for total immersion. For use where temperatures cannot be continuously read. The thermometer must be shaken down before using. 5½" length. Aluminum case.

No.	Range	Div.
5349	0° to +220° F.	2
5350	+100° to +300° F.	5
5351	−15° to +105° F.	1
	List Refills	
5390	0° to 220° F.	2
5391	+100° to 300° F.	5
5392	−15° to 105° F.	1



Discontinued

...and Coal Stove Thermometer

Magnetic th[illegible]ometer measures flue pipe temper[illegible]ure up to 750° F. C[illegible]ol wire handle and flue pipe are fastener provid[illegible]
530[illegible]

Tank or Kettle Thermometer



3" dial with 15" stem length. All stainless steel construction with wooded safety handle for high temperature testing. Adjustable clip fits all vessels. 50° to 550° F.
5309

Dial Thermometer

Vapor filled, cast iron aluminum case with 4-1/2" dial and adjustable pointer. 10 ft. plated, double braided armor over copper capillary with 1/2" NPT removable brass union connection. Progressive graduations. Bulb is 2-1/8" long.

No.	Range
8580	30° to 180°F.
8581	30° to 240°F.
8582	-40° to 150°F.
8583	Brass well for above

Deep Freeze Cabinet Thermometer

Steel case. Dial has green background and white markings with a 2" dial. Phosphor bronze tube with precision movement and glass crystal. 5 ft. tinned cap tube and nickel plated mounting bracket.
5374 -40° to +60°F.

SEE SEPARATE PRICE LIST

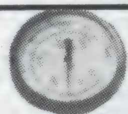
Bimetal Thermometers

Fast response, accurate temperature indication., ±1% of scale range. To insure accuracy stem should be immersed a minimum of 2" in liquids, 4" in gases. Stainless steel construction for corrosion resistance. White coated aluminum dials. Fahrenheit is black and Celsius scales printed in red. Anti-parallax dial to make reading more accurate. Accessible adjustment screw on back of case allows resetting the pointer. Hermetically sealed.

5" Dial 1/2" NPT

4" Stem	Scale	6" Stem
70200	-40° to 120°F/-40° to 50°C.	
70201	0° to 200°F/-20° to 95°C.	70206
70202	20° to 240°F/-5° to 115°C.	70207
70203	50° to 500°F/10° to 260°C.	70208
70204	150° to 750°F/50° to 400°C.	70209
70205	200° to 1000°F/100° to 550°C.	70210

Bimetal Thermometers



Economical brass and steel construction. Aluminum dial for all temperature ranges.

2" Dial 1/4" NPT

4" Stem	Scale	6" Stem
70211	-40° to 120°F/-40° to 50°C.	
70212	20° to 240°F/-5° to 115°C.	70217
70213	40° to 140°F/5° to 60°C.	70218
70214	50° to 300°F/10° to 150°C.	70219
70215	50° to 500°F/10° to 260°C.	70220
70216	60° to 220°F/15° to 105°C.	

2-1/2" Dial 1/4" NPT

4" Stem	Scale	6" Stem
70221	-40° to 120°F/-40° to 50°C.	
70222	20° to 240°F/-5° to 115°C.	70227
70223	40° to 140°F/5° to 60°C.	
70224	50° to 300°F/10° to 150°C.	70228
70225	50° to 400°F/10° to 200°C.	
70226	50° to 500°F/10° to 260°C.	70229

3-1/2" Dial 1/2" NPT

4" Stem	Scale	6" Stem
70230	-40° to 120°F/-40° to 50°C.	70236
70231	20° to 240°F/-5° to 115°C.	70238
70232	40° to 140°F/5° to 60°C.	
70233	50° to 300°F/10° to 150°C.	70239
70234	50° to 400°F/10° to 200°C.	70240
70235	50° to 500°F/10° to 260°C.	70241

Corrosion resistant stainless steel construction, aluminum dials. Black figures.

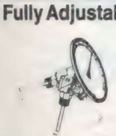
2-1/2" Dial 1/4" NPT

4" Stem	Scale	6" Stem
70242	-40° to 120°F/-40° to 50°C.	70247
70243	0° to 600°F/-15° to 315°C.	
70244	20° to 240°F/-5° to 115°C.	
70245	50° to 500°F/10° to 260°C.	70248
70246	200° to 1000°F/10° to 530°C.	

3-1/2" Dial 1/2" NPT

4" Stem	Scale	6" Stem
70249	-40° to 120°F/-40° to 50°C.	
70250	0° to 600°F/-15° to 315°C.	70256
70251	20° to 240°F/-5° to 115°C.	70257
70252	50° to 300°F/10° to 150°C.	70258
70253	50° to 500°F/10° to 260°C.	70259
70254	150° to 750°F/65° to 400°C.	
70255	200° to 1000°F/100° to 530°C.	70260

Fully Adjustable Mounting Angle Thermometer



Thermometer head can be rotated 360°s, while maintaining the stem angle.

5" Dial 1/2" NPT

4" Stem	Scale	6" Stem
70261	-40° to 120°F/-40° to 50°C.	70267
70262	0° to 200°F/-20° to 95°C.	70268
70263	20° to 240°F/-5° to 115°C.	70269
	50° to 300°F/10° to 150°C.	
70264	50° to 400°F/10° to 200°C.	70270
70265	50° to 500°F/10° to 260°C.	70271
70266	200° to 1000°F/100° to 550°C.	70272

Thermowells

May be required to protect the thermometer stem against collapse under high pressure conditions. Allows thermometer to be removed without disturbing the process. Thermowells accept bi-metal thermometer with 1/2" NPT stem only. Both are brass without lagging extension.

70273 4" Stem **70274** 6" Stem

Industrial Stack

2" dial with 4" stem length. Stainless steel construction with reversible chrome flange. 200° to 1000°F.

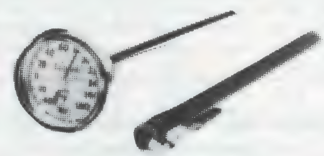
5315

Pocket Thermometer
1-3/4" Dials

Dual Scale, adjustable, stainless steel, ±1% accuracy.

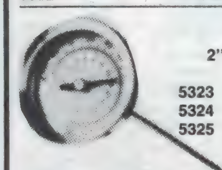
No.	Range
5352	-60° to +120°F.
5354	0° to +220°F.

Instant Reading Pocket Test Thermometers



1" diam. dial with 5" stainless steel stem, unbreakable magnifying lexan lens and high visibility pointer, recalibrateable, 2 increments. Comes with handy pocket sheath and safety clip.

No.	Range	Div.
5319	25° to 125°F.	1
5320	50° to 550°F.	5
5321	-40° to 160°F.	2
5322	0° to 250°F.	2

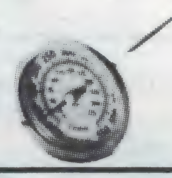


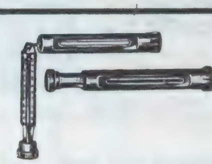
2" Dial With 5" Stem Dual Scale

No.	Range	Div.
5323	-40° to 120°F/-40° to 82°C	2
5324	0° to 220°F/-17° to 104°C	2
5325	50° to 550°F/10° to 287°C	5

2" Dial With 8" Stem

No.	Range
5326	0° to 220°F
5327	25° to 125°F
5328	50° to 550°F



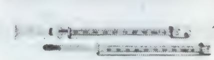


Bacharach Sling Psychrometer

Twin bulb mercury thermometers are mounted in a plastic case. A water reservoir holds an extra length of wick and enough water for several hours of testing. Range 30° to 110° F. When closed it is 7½" long and 1" in dia.

70925 Complete Psychrometer
70926 Extra Thermometer

Sling Psychrometer



Pocket wet/dry bulb type, with leather case. Incl. slide rule humidity calculator. Range 30° to 110° F.

5330 Complete Psychrometer
5331 Replacement Thermometer

Indoor/Outdoor Wall Thermometer



Polystyrene back with woodtone background and white dual scale in °F or °C. 7¾"x2". Range -40° to 120° F.

5313

Outdoor/Window Thermometer

Adjustable bracket, molded white plastic case, easy to read scale in °F. and °C. 7¾"x2". Range -50° to 130° F./-45° to 50°C.
5311

Indoor/Outdoor Thermometer

Permits indoor/outdoor temperature readings from your home. Brown molded plastic case. 4 ft. cap. tubing, mounting hardware incl. 8½"x2¼". Range -70° to 120° F/-60° to 50° C.
5314

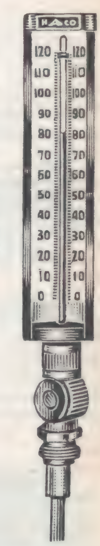
Outdoor Thermometer

White molded plastic case in classic design. Red pointer on highly legible dual scale in °F and °C. Adjustable bracket Size 5"x5". Range -40° to 120° F.
5310

Indoor/Outdoor Thermometer & Hydrometer

Read indoor humidity and indoor/outdoor temperature from inside. Molded woodgrain case, silver dial, 4 ft. cap. tubing, mounting hardware, and instructions. 8-3/4"x2-13/16". Range -70° to 110° F./-50° to 40° C.
5312

HACO Multi-Angle Thermometer



Movable joint permits 9" scale to rotate 180°. Has looking device made of machined brass and finished chrome plate. Designed to produce positive lock. One piece shallow aluminum case, finished in baked enamel with heavy glass protected lens. Graduations and figures are black with a mercury filled magnifying lens, red reading tube. Accurate within 1% of scale range. Graduations are in 1° div. Stem is made of steel, copper plated for better heat transfer.

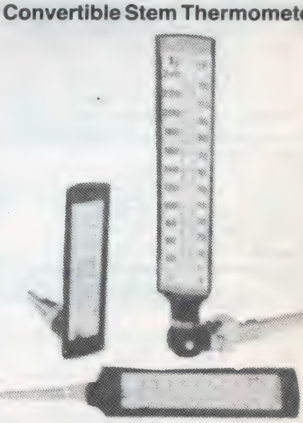
3½" Stem

No.	Range
8560	-40 to +110° F
8561	-10 to +180° F
8562	+30 to +240° F
8563	+30 to +300° F
8564	+50 to +400° F

6" Stem

No.	Range
8565	-40 to +110° F
8566	-10 to +180° F
8567	+30 to +240° F
8568	+30 to +300° F

Convertible Stem Thermometers

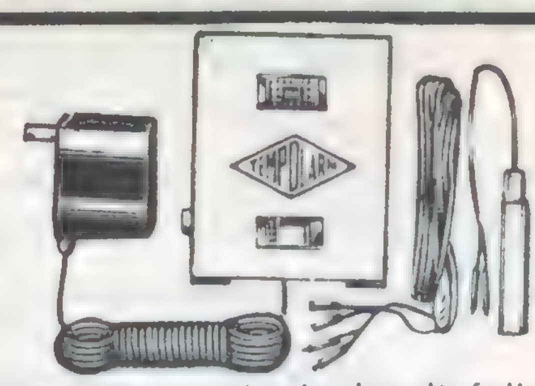


Suited for hot or chilled water lines where distant reading is not a must. Economical fixed thread design proves suited to lines that can be bypassed for instrument service. 7" scale case is cast aluminum with black enamel finish. Bulb chamber is brass with 2" insertion length. ¼" NPT fixed thread connection.

Bottom Connect	Range	Back Connect
70275	-40° to 110° F/-40° to 40° C	70279
70276	20° to 120° F/-5° to 45° C	70280
70277	30° to 240° F/0° to 115° C	70281
70278	50° to 400° F/10° to 200° C	70282
70283	Separable socket brass with internal thread of ¼" NPT; external thread ½" NPT	

SEE SEPARATE PRICE LIST

Temperature Alarm Systems



Warns of power circuit failure, mechanical circuit failure, refrigerant leaks, heater and compressor failure. Unit may be mounted on a wall, control panel or free standing. The remotely mounted sensor triggers a loud buzzer and warning light on high temperature conditions. Alarm shown separately with your choice of three optional sensors. 120V AC current rating 8 watts.

No.	Description
21345	High Temperature Alarm
21346	Sensor Set at 5°F.
21347	Sensor Set at 50°F.
21348	Adjustable Temperature Sensor -30°F. to +100°F.

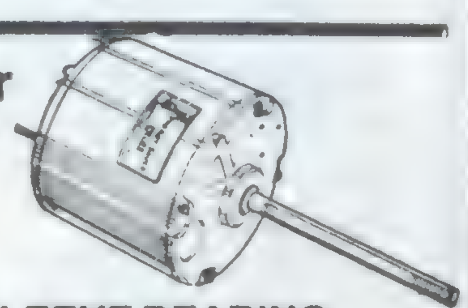
Temperature Alarm System



Warns of rise or drop of temperature changes in walk-in-coolers, freezers or display cases. Will only sound when temperature rises above setting for one continuous hour. May be mounted on wall or control panel. Accurate to +1° F. with an adjustable range of 0° to 50° F. Comes complete with 6' power cord and 6' sensor cord with encapsulated sensor. Unit can be connected to relay for any remote signal or central alarm panel.

No. **60549**

GE 5KCP39 Split Capacitor Direct Drive Condenser Fan Motor



ENERGY EFFICIENT 6 POLE SLEEVE BEARING TWO SPEED— 1075/850 RPM REV-ROTATION

Designed for shaft up applications such as outdoor condenser fans. Shaft 1/2" OD 5" long. Motors have 1-1/2" extended thru bolts on shaft end and require a 370V capacitor sold separately. Motors 5-1/2" OD. NEMA 48 frame.

No.	HP	Volts	Amps	MFD Cap
45988K	1/6	208-230	1.1	5
45989K	1/4	208-230	1.8	5
45990K	1/3	208-230	2.6	7.5
45991K	1/2	208-230	4.1	10

6 POLE BALL BEARING TWO SPEED— 1075/850 RPM REV-ROTATION

No.	HP	Volts	Amps	MFD Cap
45992K	1/3	208-230	2.8	7.5
45993K	1/2	208-230	4.3	10
46070K	3/4	208-230	4.6	15

8 POLE BALL BEARING ONE SPEED— 825 RPM REV-ROTATION

No.	HP	Volts	Amps	MFD Cap
45996K	1/6	208-230	1.4	5
45997K	1/4	208-230	2.7	5
45998K	1/3	115	6.7	15
45994K	1/3	208-230	2.6	10
45995K	1/2	208-230	3.7	10

(No. 45995 is only CCW from Opp. Shaft End)

GE Direct Drive Motors

Reversible Rotation 1075 RPM Shaft 1/2" dia. x 4" long

No.	HP	Volts	Amp.
46180	1/4	115	4.2
46181	1/4	230	2.0
46182	1/3	115	4.9
46183	1/3	230	2.9
46184	1/2	115	9.0
46185	1/2	230	3.5

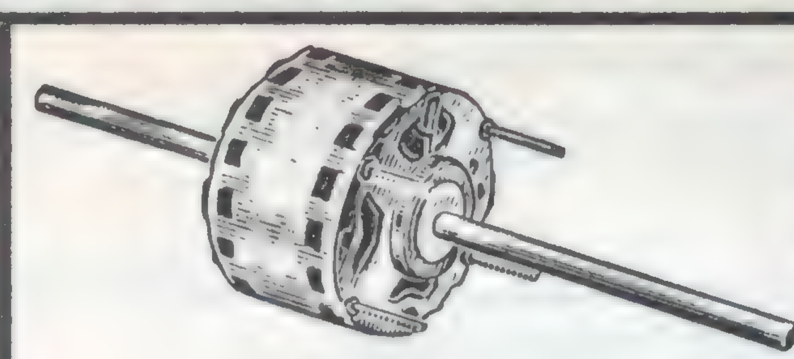
Totally Enclosed GE 5KCP39 Split Capacitor

Non-ventilated for fan service or heat pump systems. For shaft down usage, 5-1/2" OD NEMA frame. Shaft 1/2" diam. 5" long.

6 POLE SLEEVE BEARING ONE SPEED— 1075 RPM REV-ROTATION

No.	HP	Volts	Amps
46083K	1/4	208-230	1.6
46084K	1/3	208-230	2.4
46085K	1/2	208-230	3.8

GE 5KSP29 Shaded Pole Double Shaft Replacement Motors



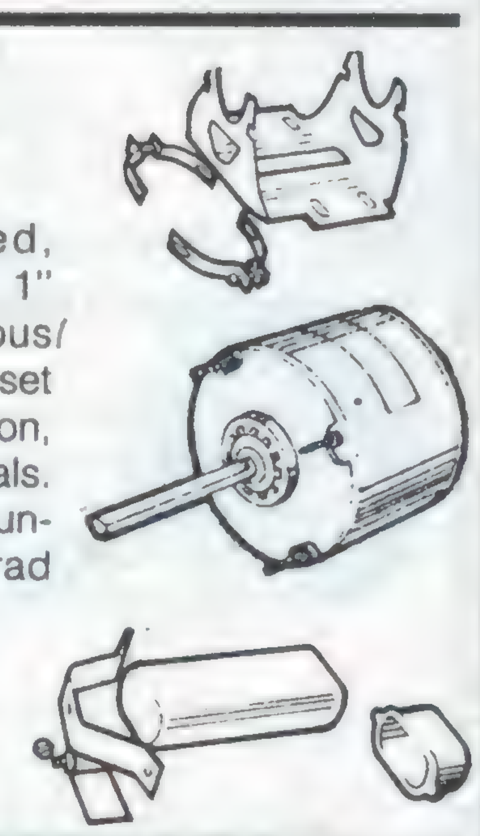
End plates adjust to match motor mounting ring centers of the original motors and are supplied with spacer rings to increase the size of the 2-1/4" OD mtg. to 2-1/2" OD.

—CCW Rotation

Air Over Motor 5" Outside Diameter

No.	HP	Volts	RPM	No. Speeds	Amps	Shaft Dia.	Shaft Long
46020K	1/15	115	1000	4	2.7	3/8"	8"
46021K	1/15	115	1000	4	2.7	1/2"	10-1/2"
46024K	1/10	115	1000	5	4.5	1/2"	8"
46025K	1/8	115	1000	5	4.5	1/2"	10"
46027K	1/15	230	1000	3	1.4	1/2"	8"
46028K	1/15	230	1000	4	1.35	3/8"	8"
46029K	1/15	230	1000	4	1.35	1/2"	10-1/2"
46030K	1/15	115	1500	3	3.0	3/8"	7-1/4"
46031K	1/12	115	1500	3	4.05	3/8"	6"
46032K	1/12	115	1500	3	4.05	1/2"	6-3/4"
46033K	1/8	115	1500	3	5.5	3/8"	8"
46035K	1/12	230	1500	3	1.70	3/8"	6-3/4"

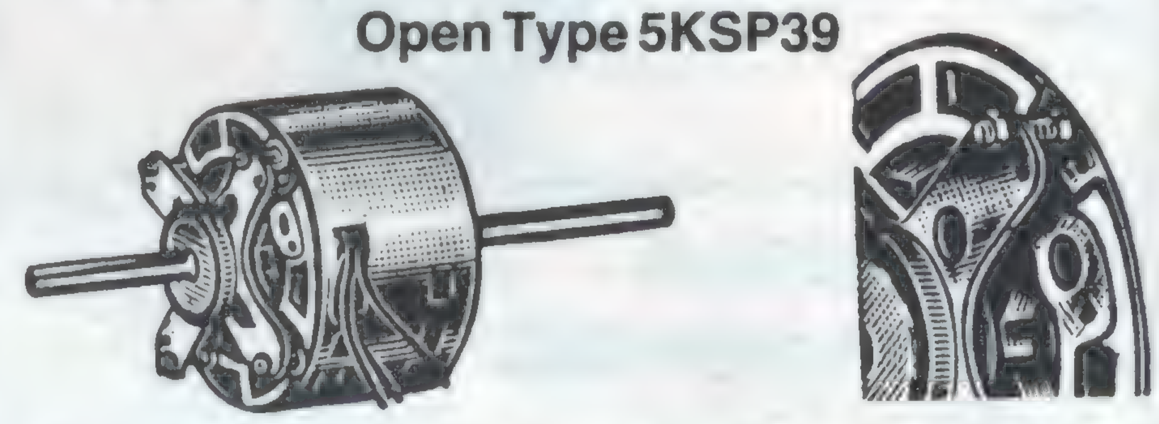
Totally Enclosed Non-ventilated Motors



115V, 1075 RPM, Single Speed, Capacitor—KCP Type Ball Bearings, 1" extended clamp screws, continuous/duty-air over, 60/50 HZ, automatic reset thermal protection, reversible rotation, 2-1/4", resilient rings and water seals. Base, latch straps, capacitor and mounting kit. Run capacitor of microfarad rating at 370V incl.

No.	HP	Amps
46096K	1/6	3.0
46097K	1/4	4.2
46098K	1/3	6.0

GE Replacement Fan 2 and 3 Speed Double Shaft Shaded Pole Open Type 5KSP39



Ring adapters to increase OD 2-1/2". Has 1/2" OD shaft. Motors are 5-1/2" OD.

4 Pole Sleeve Bearing Three Speed —1550 RPM—CCW Rotation

No.	HP	Volts	Amps	Shaft Length Opp. Lead End	Shaft Length Lead End	Max Mtg Center
45023K	1/8	115	4.5	8-1/2	7-1/4	5-5/8
45033K	1/8	208-230	2.2	8-1/2	7-1/4	5-5/8
45034K	1/6	208-230	2.5	7	8-1/2	5-7/8
45025K	1/4	115	7.5	7-1/2	7-1/2	6-3/8
45035K	1/4	208-230	3.7	7-1/2	7-1/2	6-3/8

6 Pole Sleeve Bearing Three Speed —1050 RPM—CCW Rotation

No.	HP	Volts	Amps	Shaft Length Opp. Lead End	Shaft Length Lead End	Max Mtg Center
45020K	1/10	115	3.7	7-1/2	8-1/2	5-3/8
45030K	1/10	208-230	1.9	7-1/2	8-1/2	5-3/8
45031K	1/8	208-230	2.2	7	8-3/4	5-5/8
45022K	1/6	115	5.8	7	8-3/4	5-7/8
45032K	1/6	208-230	2.8	8-1/2	7	5-7/8

Direct Drive Motor Mounting Bracket For Lau Blowers

Supported from the housing venturi, mounting brackets are adjustable for motors 3-1/2" to 6-1/8" in length. The 9" bracket accommodates a 48 frame motor and the 10" accommodates 48 and 56 frame size. Adjustable to various wheel widths with necessary hardware furnished.

No.	Lau No.	Blower
61586	38-2514-01	9"
61587	38-2515-01	10"

5KCP39 Frame Permanent Split Capacitor Double Shaft

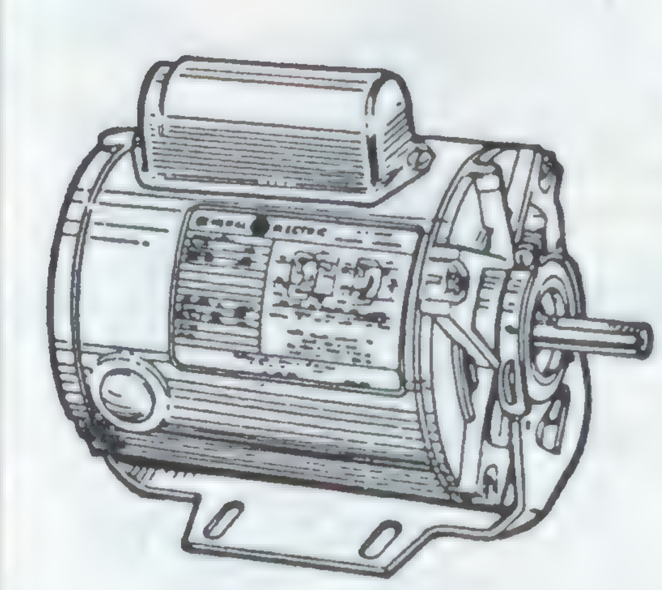
4 Pole Sleeve Bearing Three Speed —1625 RPM—CCW Rotation

No.	HP	Volts	Amps	Shaft Length Opp. Lead End	Shaft Length Lead End	Max Mtg Center
45930K	1/6	115	2.4	7	8-3/4	5-5/8
45937K	1/6	208-230	1.1	7	8-3/4	5-5/8
45938K	1/5	208-230	1.4	8-1/2	7	5-7/8
45932K	1/4	115	4.0	7	8-1/4	6-1/8
45939K	1/4	208-230	1.8	7	8-1/4	6-1/8
45933K	1/3	115	6.0	6-1/2	8-1/4	6-5/8
45940K	1/3	208-230	2.8	6-1/2	8-1/4	6-5/8
45934K	1/2	115	8.9	7	7-1/2	6-7/8
45941K	1/2	208-230	4.1	7	7-1/2	6-7/8

6 Pole Sleeve Bearing Three Speed —1075 RPM—CCW Rotation

No.	HP	Volts	Amps	Shaft Length Opp. Lead End	Shaft Length Lead End	Max Mtg Center
45041K	1/10	115	1.7	7	9	5-3/8
45046K	1/10	208-230	.8	7	9	5-3/8
45042K	1/8	115	2.5	7	9	5-3/8
45047K	1/8	208-230	1.0	7	9	5-3/8
45043K	1/6	115	3.1	7	8-3/4	5-5/8
45048K	1/6	208-230	1.3	7	8-3/4	5-5/8
45044K	1/4	115	5.0	8	7-1/2	5-7/8
45049K	1/4	208-230	2.0	8	7-1/2	5-7/8
45029K	1/3	115	6.8	7-1/2	7-1/4	6-5/8
45039K	1/3	208-230	3.4	7-1/2	7-1/4	6-5/8
45924K	1/2	115	9.0	7	7-1/4	7-1/8
	(No. 45924 Needs 10 Mfd Capacitor)					
45925K	1/2	208-230	4.6	7	7-1/4	7-1/8
	(No. 45925 Needs 7.5 Mfd Capacitor)					
45907K	3/4	208-230	5.6	7	7-1/4	7-1/8
	(No. 45907 Needs 7.5 Mfd Capacitor)					

Capacitor Start General Purpose Motors



Rotation changed by reconnecting the terminals. Nema 48 frame 1/2" shaft 3" shaft height and 4-1/4" x 2-3/4" mounting holes. Nema 56 frame 5/8" shaft 3-1/2" shaft height and 4-7/8" x 3" mounting holes.

SLEEVE BEARING—1725 RPM —RESILIENT BASE—AUTO OVERLOAD

No. 44661K is 115V All Others Are 115/230V

No.	HP	Frame	Amps.
44661K	1/4	48	5.2
44662K	1/3	56	6.6
44663K	1/2	56	9.2
44664K	3/4	56	12.0
44675K	1	56	13.8

(No. 44675K Has Ball Bearings)

SLEEVE BEARING—3450 RPM —RESILIENT BASE—AUTO OVERLOAD

No.	HP	Frame	Amps.
44629K	1/3	48	6.8
44655K	1/2	48	7.4
44656K	3/4	56	10.0
44657K	1	56	12.4

GE Capacitor Start Motors

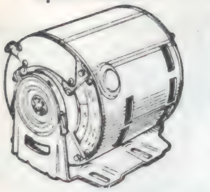
Open type drip proof construction operating in any position. Rotation reversible. Frame 56.

SLEEVE BEARING—SINGLE SPEED—RESILIENT BASE— AUTO OVERLOAD 115/230V—6-1/2" O.D.

No.	HP	RPM	Amps
44710K	1/2	1725	9.2
44711K	3/4	1725	12.0
	Two Speed Resilient Base Automatic Overload 115V		
44759K	1/2	1725/1140	8.2/3.9

SEE SEPARATE PRICE LIST

GE General Purpose Split Phase



- Nema 48 Frame 1/2" shaft 3" shaft height and 4-1/4" x 2-3/4" mounting holes
- Nema 56 Frame 5/8" shaft 3-1/2" shaft height and 4-7/8" x 3" mounting holes
- Nema 56Z Frame 1/2" shaft, 5/8" adapter and key supplied 3-1/2" shaft height and 4-7/8" x 3" mounting holes

Single Speed—1725 RPM—Resilient Base—Auto O/L 5-1/2" Outside Diameter

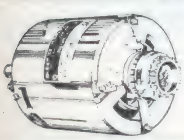
No.	HP	Volts	Frame	Amps
44622K	1/6	115	48	3.6
44623K	1/4	115	48	4.7
44618K	1/4	115	56Z	4.9
44626K	1/4	230	48	2.5
44624K	1/3	115	48	5.6
44619K	1/3	115	56Z	5.6
44627K	1/3	230	48	2.8
44620K	1/2	115	56	7.3
44628K	1/2	230	56	3.6
44621K	3/4	115	56	12.0

Two Speed 1725/1140 RPM —Resilient Base—Auto O/L

No.	HP	Volts	Frame	Amps
44712	1/4-1/12	115	48	4.6/2.8
44713	1/3-1/9	115	56	8.2/3.9

Single Speed 1725 RPM —Resilient Base—Auto O/L

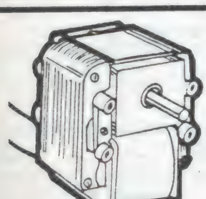
No.	HP	Volts	Frame	Amps
44724	1/4	115	48	5.5
44728	1/3	115	48	6.3
44749	1/2	115	56Z	8.1



GE PDQ Replacement Motors Replace Most Frame 48 and 56 Motors

Motors have automatic reset overloads, 1725 RPM, 115V 60 Hz
Maximum Mounting Length May Be Shortened
Shaft 1/2" to 5/8" Mounting Ring 2-1/2" or 2-1/4" 5-1/2" OD
Reversible Rotation 115V 60 Hz

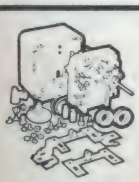
No.	HP	Full Load Amps	Mount Length
46150K	1/4	4.6	7.7
46151K	1/4	4.5	7.7
46152K	1/3	5.7	8.3
46153K	1/3	5.2	8.3
46154K	1/2	7.2	9.0
46155K	1/2	6.9	9.0



HACO C-Frame CW Rotation

3000 RPM Skeleton Type, continuous duty, threaded 6-32 mounting studs, 1/2" long. 1-7/8" center to center. Motor 2-3/8" Wide, 3" high, 120V., 60 Hz., 1-Ph.

No.	HP	Stack Size	Shaft Dia.
74468	1/80	.850	.181
74430	1/400	.312	.181
74431	1/185	.500	.181
74432	1/75	.625	.218
74433	1/55	8.75	.218

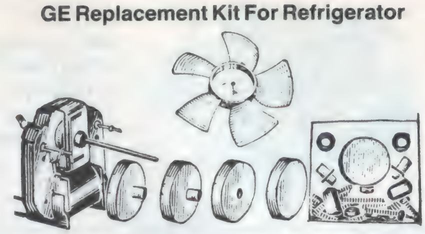


Mars Super Fit Evaporator Fan Replacement Motor

No.	Description
38670	Super Fit Mtr w/Acces.

Reversible rotation motor duplicates virtually any OEM Refrigerator evaporator fan motor.

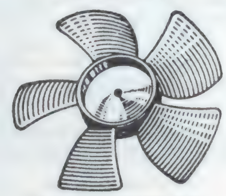
GE Replacement Kit For Refrigerator



Replaces evaporator fan motors made by GE and other manufacturers and used now in most refrigerators and freezers. Kit incl. 4 plastic oil covers, screws, bolts, nuts, adapters and grommets to modify the basic motor to replace most other motors. Also incl. a 3-1/2" and 4" dia. plastic fan blade with a split end hub for easy installation. Shafts are 2-5/8" long, easily cut where required. Blows air away from the motor. 115V, 60Hz, .35 Amp.

No.	Shaft Diam.	Rotation
46100	3/16"	CW

Cooling Fan Blades For Frame Motors



Five blades with 30° pitch.

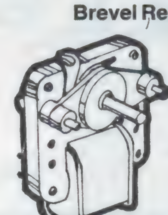
CW Rotation Facing Hub

No.	Diameter, In. Fan	Bore
74437	4	0.181
74438	4	0.218
74439	5	0.218

CCW Rotation Facing Hub

No.	Diameter, In. Fan	Bore
74447	4	0.181
74448	4	0.218
74449	5	0.218

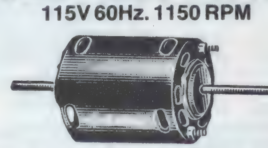
Brevel Replacement Motors



Has a 2⅜" long shaft with .2178" diameter. 6-32 mounting bolts on rear of motor extend ½". 120V, 60Hz, 1/200 HP at 1950 RPM. Motor is 2-15/16" high x 2⅜" wide.

No.	HP	Shaft Length	Shaft Dia.
74479	1/200	2-3/8"	.218

Universal Electric Shaded Pole 3 Speed 115V 60Hz. 1150 RPM



These double shaft motors have 5/16" OD shaft 6-3/8" long on both ends. Motor 3-3/8" OD 3-1/2" long. Four mounting studs both ends.

No.	Univ.	HP At Speeds High	Med.	Low	Amp.
32874K	377	1/15	1/25	1/30	2.6

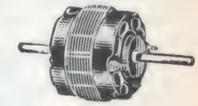
Replaces Old Univ. 356

No.	Univ.	HP At Speeds High	Low	Amp.
32875	359	1/20	1/40	2.3

Similar to above except permanent split capacitor "energy efficient" model. With shafts 5/16" OD both ends 6" long. Body 3-3/4" long 3-3/8" OD.

No.	Univ.	High	Low	Amp.
32718	447	1/12	1/20	1.2

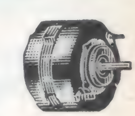
Universal Electric Open Ventilated For Fan and Blower Duty



115V 60Hz. double shaft motors 3-3/8" OD with mounting bolts on 2-7/8" centers.

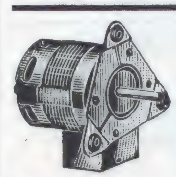
No.	Univ.	HP	RPM	Amp	Body Long
Both Shafts 1/4" OD 1-1/2" Long					
32871	11	1/30	3000	1.1	2-7/8"
Both Shafts 5/16" OD 2-3/8" Long					
32785	314	1/40	1550	.8	2-1/2"
Both Shafts 5/16" OD 1-7/8" Long					
32872	324	1/25	1550	1.4	3"

Universal Electric Enclosed Fan Motors



Body 3-3/8" OD 2" long. Mtg. studs on 2-27/32" centers. Shaft 1/4" OD 1-1/2" long. 115V 60Hz. AC 1/100 HP is 1600 RPM and 1/50 HP is 1550 RPM.

CW	CCW	Rotation Universal CW	CCW	H.P.
32641	**32651**	16	17	1/100
32642	**32652**	20	21	1/50



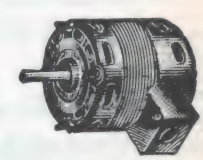
Universal Electric Replacement for Jenn Air Exhaust Fans

No.	Univ.	HP	RPM	Shaft	Body	Amps
32767	77	1/35	1550	5/16"x2"	3-9/32"	.9

Without conduit box of triangular bracket. Body 3-3/8" long. 3-3/8" OD.

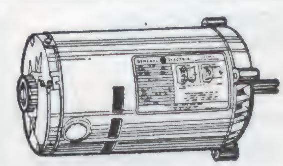
No.	Univ.	HP	RPM	Shaft	Body	Amps
32784	307	1/25	1.2	5/16x1-1/2		1.2

Universal Electric Replacement For McQuay Coolers



Has single 5/16" OD shaft, 3-1/2" OD Body 3" long. Has shaft mounting studs on 3-1/8" centers. 115/230V 60 Hz CW rotation. Univ. Elec. No. 342

No.	HP	RPM
32844	1/15	1150



GE End-Mounted Fan & Blower Motors 56Hz Frame Split Phase 1140 RPM 115V

Special shaft length of 2¼" is standard on these motors for fan mounting.

No.	H.P.	Amps.
46094K	¼	5.3

GE Motors With C-Face For Models 5KC

Standard shaft ⅝" by 1⅞". Clockwise rotation from view opposite the shaft end. For 4½" opening bolt holes on 5⅞" diameter. Ball bearing, 3450 RPM C-Face, Auto. overload. 115/230V 6½" outside Dia.

No.	HP	Frame	Amps
44703	½	56C	7.4
44704	¾	56C	11.2
44705	1	56C	13.2
Standard Threaded Shaft For Jet Pumps			
44706	½	56C	7.4

SEE SEPARATE PRICE LIST

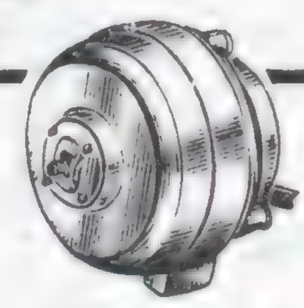
GE Motors For Oil Burners

Has 2 lug flange mounting. Totally enclosed housing with built in manual reset motor overload protector. Rotation is reversible. Has ½" shaft 1½" long. 1725 RPM 115V 60 Hz. NEMA Type N 6⅜" Dia. Rabbit Flange

No.	HP	Frame	Amps
44730	1/8	48N	2.6
44731	1/6	48N	3.5

GE Motor For Circulating Pumps

No.	HP	Shaft	Amps	Volts	Speed
46189	1/8	½x.6	1.8	115	1425/1725
46190	1/6	½x.56	3	115	1725



GE Unit Bearing All Angle 5KSP51/5KPM51

Shaded Pole/Permanent Split Capacitor Motors has three 8/36" threaded holes in back plate in a circle of 1.4" radius for mounting on vertical brackets. The base has four 8/36" threaded holes on ⅝" x 1⅛" centers for bottom mounting brackets.

¼"-20 Threaded Shaft-Fan Duty

115 Volt CW Rotation 1550 RPM

No.	Watt Output
45328K	2
45310K	4
45312K	9
45314K	16

115 Volt CCW Rotation 1550 RPM

No.	Watt Output
45300K	4
45302K	9
45304K	16

230 Volt CW Rotation 1550 RPM

No.	Watt Output
45311K	4
45313K	9
45315K	16

230 Volt CCW Rotation 1550 RPM

No.	Watt Output
45301K	4
45303K	9
45305K	16

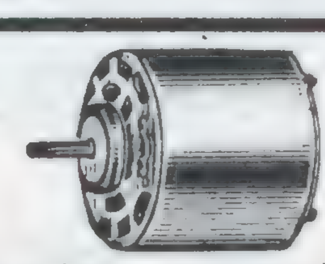
115 Volt CW Rotation 1000 RPM

No.	Watt Output
44950K	2.5
45322K	7

Tecumseh 35 Watt Output Unit Bearing Motors

1450 RPM, 60 HZ, CW Rotation viewing lead end.

No.	Voltage
39603	115V
39604	230V



GE 5KSP29 Shaded Pole Motors

Has rubber mounting rings to replace base mounted motors and tapped holes to replace stud mounted motors.

Form G—Replaces KSP21 Frame Motors ⅜"x1½" Single Shaft 4 Pole—1550 RPM Air Over Motor 5" Outside Dia.

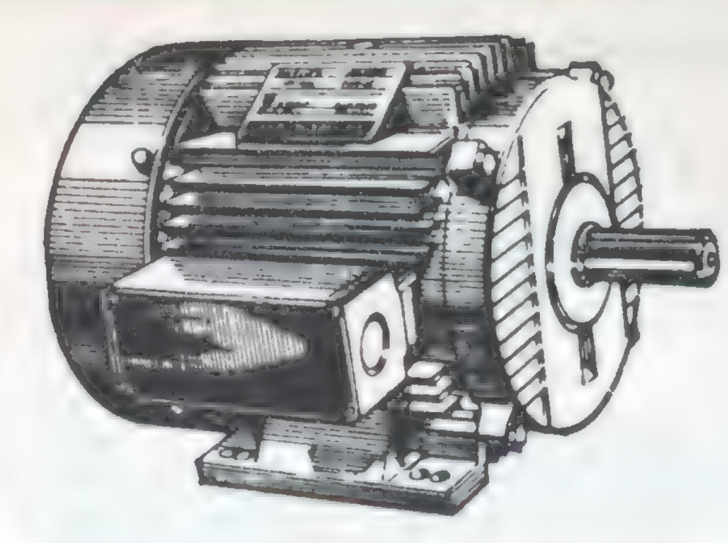
No.	HP	Volts	Rot	Amps
45380K	1/20	115	CCW	2.50
45390K	1/20	115	CW	2.50
45381K	1/20	208/230	CCW	1.20
45391K	1/20	208/230	CW	1.20
45050K	1/15	115	CCW	2.80
45060K	1/15	115	CW	2.80
45051K	1/15	208/230	CCW	1.40
45061K	1/15	208/230	CW	1.40
45053K	1/10	115	CCW	4.60
45063K	1/10	115	CW	4.60
45054K	1/10	208/230	CCW	2.10
45064K	1/10	208/230	CW	2.10

⅜"x1½" Single Shaft 6 Pole—1050 RPM

No.	HP	Volts	Rot	Amps
45382K	1/20	115	CCW	3.10
45052K	1/15	115/208-230	CCW	4.0/2.0

⅜"x2" Single Shaft + Pole—1050 RPM

No.	HP	Volts	Rot	Amps
45055K	1/10	115	CCW	4.70
45066K	1/10	115/208-230	CW	4.0/2.0
45056K	1/10	208/230	CCW	2.50

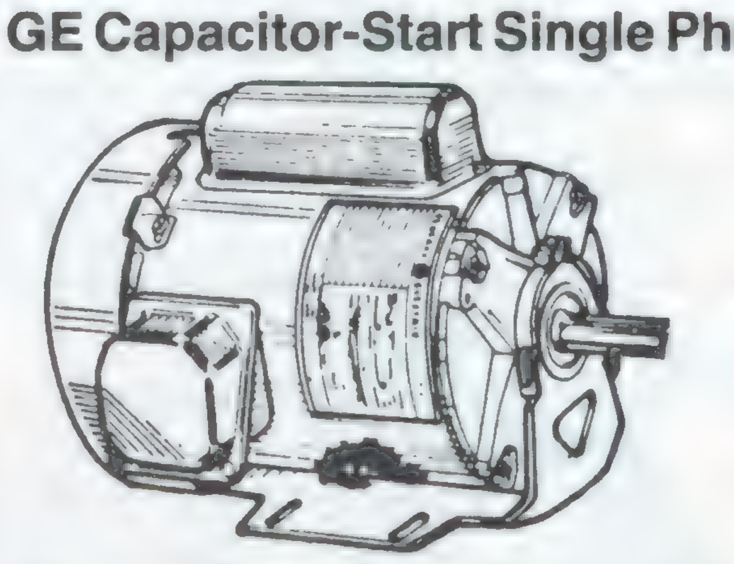


GE Type 5K Drip Proof General Purpose Three Phase Motors

Has ball bearings solid steel base and large connection box for easy hookup. 230/460V 60 HZ 1725 RPM.

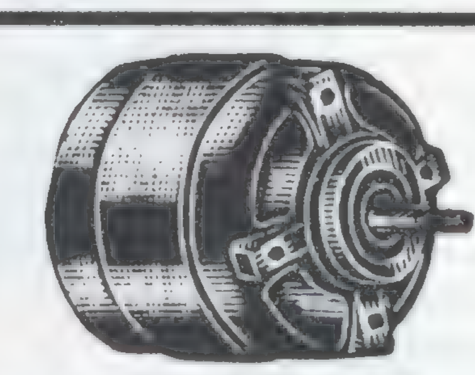
No.	HP	Full Load Amps 230V	NEMA Frame
46410K	1	3.6	143T
46411K	1½	5.6	145T
46412K	2	6.6	145T
46413K	3	9.2	182T
46414K	5	14.0	184T

GE Capacitor-Start Single Phase Type 5KC



Totally enclosed fan cooler ball bearing. 6½" outside diameter without thermal protection. 1725 RPM 60 HZ.

No.	HP	Volts	Frame	Amps
44671K	¼	115	48	5.4
44672K	⅓	115/230	56	6.0
44673K	½	115/230	56	8.2
44674K	¾	115/230	56	11.6



GE Open Type 5KSP11

These shaded pole fan motors will operate in any position. The shaft end has four tapped holes with 8/32" thread on 2" square centers for end mounting. There are resilient mounting rings 1-3/4" OD on each end for mounting. Shafts 5/16" OD 1-1/4" long and 1550 RPM 60 Hz. Motor diameter 4".

115 Volts With Mounting Rings

No.	HP	Rotation	Amps
46000K	1/40	CCW	1.28
46010K	1/40	CW	1.28
46001K	1/30	CCW	1.74
46011K	1/30	CW	1.74
46009K	1/20	CCW	2.2
46019K	1/20	CW	2.2

115 Volts Without Mounting Rings

No.	HP	Rotation	Amps
46002K	1/20	CCW	2.2

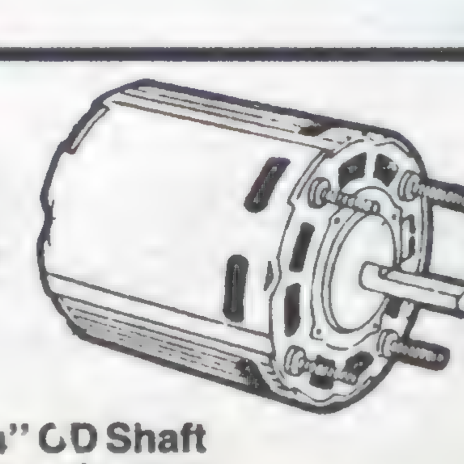
208/230 Volts With Mounting Rings

No.	HP	Rotation	Amps
46013K	1/40	CW	.65
46004K	1/30	CCW	.87
46014K	1/30	CW	.87
46044K	1/20	CCW	1.1
46054K	1/20	CW	1.1

208/230 Volt Without Mounting Rings

No.	HP	Rotation	Amps
46053K	1/30	CW	.82
46015K	1/20	CW	1.1

Universal Electric Open Ventilated Internally Cooled Motors

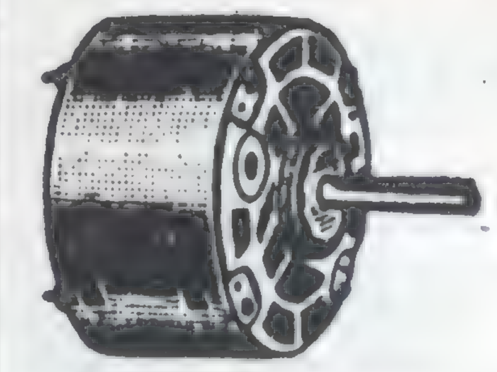


Mtg. studs on 2⅞" centers.

1/60 HP .65 Amp ¼" OD Shaft 115V 60Hz 1550RPM 3⅜" OD

No.	Univ. No.	Rotate	HP	Body Long	Shaft
32608	24	CW	1/60	3	¼x3
32618	25	CCW	1/60	3	¼x3
32784	307	CW	1/25	3⅜	5/16x1½

GE 5KSP39 Open Type Shaded Pole Fan Motors



With internal fan blades to keep the motor cool. 2-1/4" resilient ring mounting with 1/2" shaft 4" long. Motors are 5-1/2" OD. NEMA 48 frame.

4 Pole Single Speed 1550 RPM CCW Rotation

No.	HP	Volts	Amps	Mfg. Center
45002K	1/8	115	4.5	4.39
45012K	1/8	208-230	2.2	4.39
45018K	1/8CW	208-230	2.2	4.39
45004K	1/6	115	5.0	4.64
45014K	1/6	208-230	2.9	4.64
45006K	1/4	115	7.5	5.14
45016K	1/4	208-230	3.7	5.14

6 Pole Single Speed 1050 RPM CCW Rotation

No.	HP	Volts	Amps	Mfg. Center
45003K	1/8	115	4.5	4.39
45013K	1/8	208-230	2.2	4.39
45005K	1/6	115	5.8	4.64
45015K	1/6	208-230	2.8	4.64
45007K	1/4	115	9.2	5.14
45017K	1/4	208-230	4.7	5.14

Three Speed 1050 RPM CCW Rotation

No.	HP	Volts	Amps	Mfg. Center
45920K	1/10	115	3.9	3.39
45921K	1/8	115	5.4	3.64
45922K	1/5	115	6.8	3.89
45923K	1/4	115	9.0	4.64

GE 5KCP39 Permanent Split Capacitor Single Shaft 4 Pole 1625 RPM less Capacitor CCW Rotation

No.	HP	Volts	Amps	Mfd Cap	Mfg Center
45913K	1/4	208-230	1.8	5	4.89
45905K	1/3	115	6.0	5	5.39
45915K	1/3	208-230	2.8	5	5.39

6 Pole 1075 RPM Less Capacitor CCW Rotation

No.	HP	Volts	Amps	Mfd Cap	Mfg Center
45912K	1/6	208-230	1.3	5	4.39
45918K	1/4CW	208-230	2.0	5	4.64
45904K	1/4	115	5.0	5	4.64
45914K	1/4	208-230	2.0	5	4.64
45917K	1/6 CW	208-230	1.3	5	4.39
45906K	1/3	115	6.6	5	5.39
45916K	1/3	208-230	3.4	5	5.39
45919K	1/3 CW	208-230	3.4	5	5.39
46069K	1/2	208-230	4.6	7.5	5.89

6 Pole Three Speed 1075 RPM CCW Rotation

Furnace blower motors have 2-1/2" unbonded ring mounting.

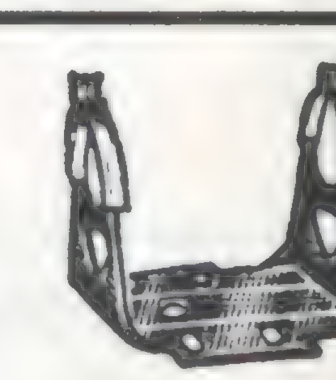
No.	HP	Volts	Amps	Mfd Cap	Mfg Center
45965K	1/4	115	4.3	5	4.39
45963K	1/3	115	6.7	5	5.14
45964K	1/2	115	9.0	10	18.1

6 Pole Three Speed 1075 RPM Reversible Rotation

2-1/4" Bonded Ring Mountings

No.	HP	Volts	Amps	Mfd Cap	Mfg Center
45982K	1/4	115	5.2	7.5	5.39
45985K	1/4	208-230	2.0	5	5.39
45983K	1/3	115	7.2	7.5	5.39
45986K	1/3	208-230	3.4	5	5.39
45984K	1/2	115	9.0	10	5.89
45987K	1/2	208-230	4.6	7.5	5.89
46072K	3/4	208-230	5.9	10	5.89
46188	3/4	115			

GE Bases For Form G Type 5KSP-5KCP 39 Motors



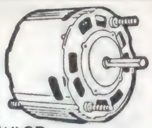


Have mounting holes parallel to shaft on 1-11/16" centers and across the shaft on 4-7/8" centers. Shaft height 3-1/2". Fits 2-1/4" OD rubber mounting ring.

No.	For Mtg. Ring Centers
44595	4-3/16"
44596	4-1/2"
44597	4-11/16"
44598	4-15/16"
44599	5-7/16"

SEE SEPARATE PRICE LIST

Open Ventilated Small Fan Motor



Mtg. studs on 2⅞" centers. Shaft 1½" long.

1550 RPM ¼" OD Shaft 3⅜" OD
1/70 HP Body 2" Long 1/50 HP Body 2¼" Long

Rotation CW	CCW	Mfg. No. CW	CCW	H.P.	Amp.
32600	**32610**	14	15	1/70	.60
32601	**32611**	18	19	1/50	.75

1550 RPM 5/16" OD Shaft
1/40 HP Body 2½" Long 1/30 HP Body 2¾" Long
1/25 HP Body 3" Long

CW	CCW	CW	CCW	H.P.	Amp.
32602	**32612**	26	27	1/40	.9
32603	**32613**	28	29	1/30	1.1
32604	**32614**	30	31	1/25	1.6

Two Speed

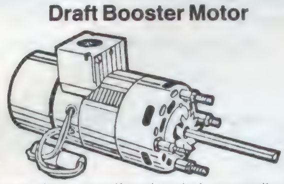
CW	CCW	CW	CCW	H.P.	Amp.
	32777		81	1/40	1.0

3000 RPM ¼" OD Shaft
1/70 HP Body 2¾" Long 1/100 HP Body 2" Long

CW	CCW	CW	CCW	H.P.	Amp.
32605	**32615**	32	33	1/70	.60
	32751		308	1/100	.50

No. 32605 Shaft ¾" Long. Body is 2" long.

Universal Permanent Split Capacitor Draft Booster Motor



Reversible rotation, centrifugal switch normally open. Motor body is 3⅜" OD and 6¾" long. Shaft is ¼" OD and 3" long. Motor has 4 extended thru bolts 1-3/16" long on 2-27/32" dia. centers.

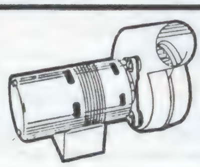
⅛ HP 3000 RPM 60 Hz

No.	Universal	Volt	Amp.	370 V Cap Needed
32755	374	115	1.9	5 Mfd.
32756	371	208/230	.8	4 Mfd.

1/20 1550 RPM 60 Hz 3½" Long Shaft. 3⅜" O.D.

No.	Universal	Volt	Amp.	370 V Cap Needed
32710	433	115/208-230	.8/1.2	5 Mfd.

Universal Electric Draft Inducer Blower And Motor

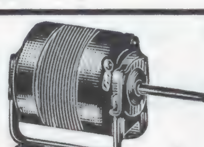


This power vent Draft Inducer motor has a normally open centrifugal 115V/230V Switch.

Overall dimensions are 5.71" high, 7.95" wide and 6.26" deep facing Blower outlet.

No.	Universal	HP	RPM	Amps
32734	408	1/60	3000	.6/.3

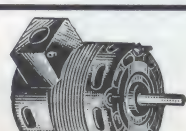
Universal Electric Totally Enclosed Motor



Shaft ⅜" OD and 2⅞" long. Rotation CW facing shaft. Base mounting holes on 1-11/16" x 3⅛" centers. 2 Speed Body 4" long 4-5/16" OD.

No.	Univ.	HP	Amp.	Volt	RPM
32846	332	1/20	2.2	115V	1000

Universal Electric Replacement For Jenn Air Exhaust Fans



Ball bearing motor with CW rotation for 115V 60 Hz

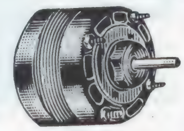
No.	Univ.	RPM	Body OD	HP	Amp	Shaft
32768	78	1500	4-5/16"	1/15	2.0	⅜"x2"

Steel Blower Wheels



No.	Stock No.	O.D.	Width	Shaft	Rot.
32757	**1187**	3-13/16"	1-29/32"	¼"	CW
32758	**1185**	3-13/16"	1-29/32"	¼"	CCW

Universal Electric Heavy Duty Ventilated Motors



Body 4-5/16" OD with 4 bolts for mounting on a 3⅞" dia. circle. 115V. 60 Hz.

CW Rotation 1550 RPM ⅜" Shaft 2½" Long
1/15 HP is 2.3 Amp and 1/12 HP is 2.6 Amp

No.	Univ.	H.P.	Body Long
32622	44	1/15	3½"
32623	46	1/12	4"

CW Rotation 1050 RPM ⅜" Shaft 2½" Long
1/20 HP is 2.0 Amp and 1/15 HP is 2.5 Amp

No.	Univ.	H.P.	Body Long
32624	48	1/20	3½"
32625	50	1/15	4"

Double Shaft Heavy Duty Motors

Body 4-5/16" OD.

115V 60 Hz 1550 RPM ⅜" Shafts 7¼" Long

No.	Univ.	H.P.	Amp	Body Long
32636	322	1/25	1.4	3"

115V 60Hz 1550 RPM ⅜" Shafts 6" Long

No.	Univ.	H.P.	Amp	Body Long
32626	52	1/15	2.3	3½"
32627	53	1/12	2.6	4"

115V 60Hz 1050 RPM ⅜" Shafts 6" Long

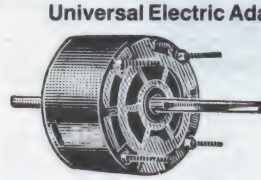
No.	Univ.	H.P.	Amp	Body Long
32628	54	1/20	2.0	3½"
32629	55	1/15	2.5	4"

Double Shaft 3 or 4 Speed 115V 60Hz 1550 Rpm

No.	HI. H.P.	HI. Amp	Med. H.P.	Med. Amp	Med. Lo H.P.	Med. Lo Amp	Lo H.P.	Lo Amp
32637	1/20	1.8	1/30	1.3	1/40	0.9	1/60	0.7

No.	Univ.	Shaft	Body
32637	363	7½ x ⅜ x 7½	3¼"

Universal Electric Adaptable Motor Permanent Split Capacitor

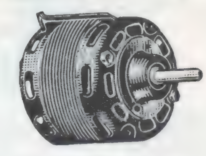


Supplied with 2 length adapters, two mounting rings on 2¼" centers, and 4 split rings to increase ring size to 2½" if needed. All motors are 5⅝" OD with ½" OD shafts. 3 speed and 1075 RPM motors.

No.	Amps.	Body Long	Shaft Length Lead End	Shaft Length Bolt End
32721K	1.5	3½"	7½"	9"
32796K	2.1	4"	7½"	8½"
32797K	5.6	4¼"	7"	6¾"
32798K	2.4	4¼"	7"	6¾"
32858K	4.3	5¼"	8"	8"

No.	Univ.	HP at Speeds High	Med.	Low	Volt
32721K	118	1/6	1/2	1/10	230
32796K	113	1/4	1/6	1/8	208-230
32797K	101	1/3	1/4	1/6	115
32798K	102	1/3	1/4	1/6	208-230
32858K	107	1/2	1/3	1/4	208-230

Universal Electric 850 RPM Blower Motor



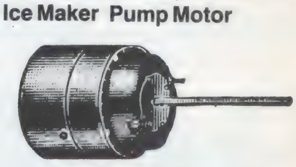
Body 4-5/16" OD 4" long. Shaft ⅜" OD 2½" long. 115V 60 Hz AC. 4.0 Amp. 4-5/16" OD.

No.	Univ.	Rotate	HP
32659	85	CCW	1/10

Same as above but 230V 60 Hz. 2.2 Amp. 4-5/16" OD.

No.	Univ.	Rotate	HP
32670	309	CCW	1/10

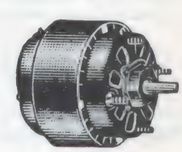
Universal Electric Totally Enclosed Ice Maker Pump Motor



Has lifetime lubricated ball bearings with shaft 5/16" OD 5" long. Body 4" OD 4½" long. mounting bolts on 2⅞" centers. Dual voltage 115/230V 60 Hz 2.0/1.0 Amp.

No.	Univ.	Rotate	HP	RPM
32765	91	CW	1/15	3000

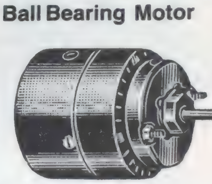
Universal Electric Fan Motor



Body 4" OD 3" long. Mounting bolts on 2⅞" centers. Shaft 5/16" OD 2" long. 115 V 60 Hz, 1.8 Amps.

No.	Univ.	Rotate	HP	RPM
32640	42	CW	1/15	1550
32650	43	CCW	1/15	1550

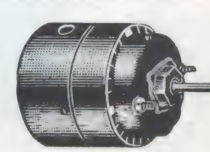
Universal Electric Totally Enclosed Ball Bearing Motor



115/230V 60 Hz 5/16" x 2¼" Shaft 4" OD.

No.	Univ.	Rotate	Amps	H.P.	RPM
32851	351	CW	1.7—.85	1/20	1550

Universal Electric Totally Enclosed Self Cooled Motors



Two mounting studs on 2⅞" centers. 1/25 HP, body 3⅞" long, and 1/20 HP body 4⅛" long.

115V 60Hz AC 5/16" Shaft 2¼" Long 4" OD

No.	Univ.	Rotate	H.P.	RPM
32620	38	CW	1/25	1550
32621	40	CW	1/20	1550

SEE SEPARATE PRICE LIST

Universal Electric Shaded Pole Motor Double Shaft 5 Speeds



This motor may be connected to run on 5 speeds and has 2 shafts 1/2" x 10" long. Has 5-1/6" OD body, 3-1/4" long, 54" leads, complete with neoprene mounted base. Shaft center height is 3-1/2". 1050 RPM at high speed. 115V 60 Hz.

No.	Univ.	H.P.	Amp
32766K	89	1/10	3.2

At	H.P.	Amp	At	H.P.	Amp
2nd Speed	1/30	1.2	4th Speed	1/60	.7
3rd Speed	1/35	1.0	5th Speed	1/70	.4

The same as No. 32766 but with 3/8" shaft 7-1/2" long.

No.	Univ.	H.P.	Amp
32791K	93	1/10	3.2

3 Speed 208/230V 60 Hz 1050 RPM

Motor body 5-1/16" OD and 3-1/4" long. Shafts are 1/2" and 8" long. Motor supplied with base and 3-1/2" center shaft height.

No.	Univ	HP at Speeds High	Med.	Low	Amps.
32792	320	1/15	1/25	1/40	1.1

4 Speed Permanent Split Capacitor Motor

115V 60 Hz RPM
Motor has 5-1/16" body, 3-1/8" long and ½" shaft 10" long.

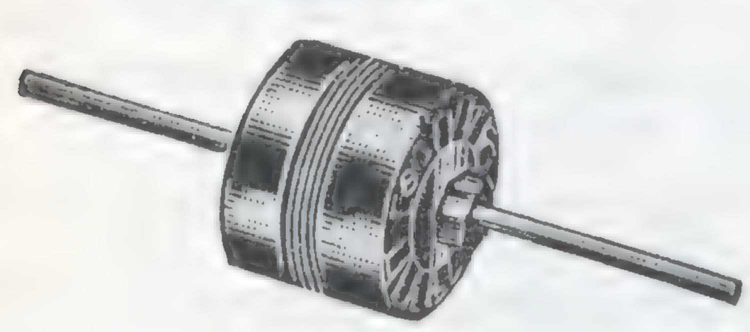
No.	Univ.	High	Med.	Med. Low	Low
32799	362	1/10	1/15	1/25	1/35

3 Speed Similar to Above 208/230V 60 HZ 1075 RPM 5-1/16" OD

Motor draws .8 amp at high speed.

No.	Univ.				
32887	381	1/10	1/10	1/15	1/20

Universal Electric Double Shaft 3 and 4 Speed Shaded Pole Motors



5-1/16" body and 1/2" shafts of equal length.

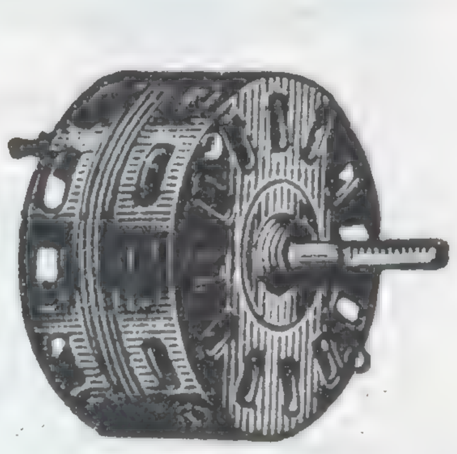
No.	Volt	Speed	High	Med.	Med. Low	Low
32876K	115	1550	1/12	1/20		1/30
32737K	115	1050	1/15	1/20	1/30	1/50
32884K	115	1050	1/15	1/20	1/30	1/50
32847K	115	1550	1/8	1/12	1/20	1/30

No.	Univ.	Amps.	Shafts
32876K	323	2.7	1/2x6-3/4
32737K	393	2.4	3/8x7-1/2
32884K	389	2.4	1/2x10
32847K	347	3.5	1/2x8

Trane Fan Motors Model DA 3/6E

No.	Univ	Amps	HP	Shafts
32885K	372	1.9	1/25	1/2x10-1/2

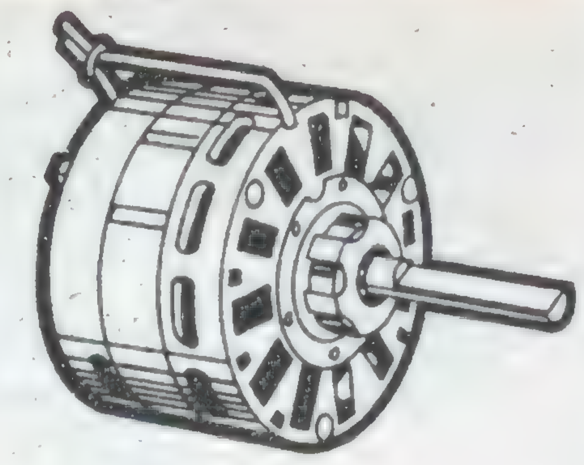
Universal Electric 2 Speed Motors 1050/800 RPM 115V 60 Hz.



Two speed shaded pole motors for furnace and window fan replacements. It has extended thru bolts on 4-5/8" centers. All are CW rotation facing shaft end. Body 5-1/16" OD.

No.	Univ No.	HP	Amp	Body Long	Shaft
32855	346	1/8-1/10	5.1	3-1/2	1/2x4-1/2
32845	96	1/15-1/30	3.0	2-1/2	3/8x2-3/8

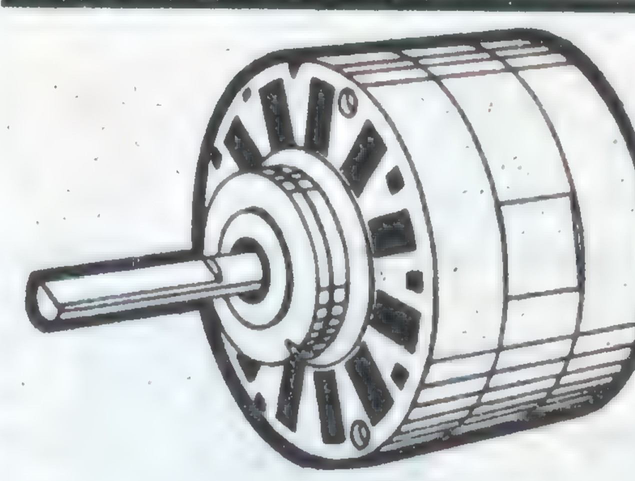
Three Speed 1050/900/750 RPM



Amp. 4.6, Body 5-1/16" OD.

No.	No.	Univ HP	Body Long	Shaft
32779	98	1/8-1/10 1/1	23-1/2	1/2x3-3/4

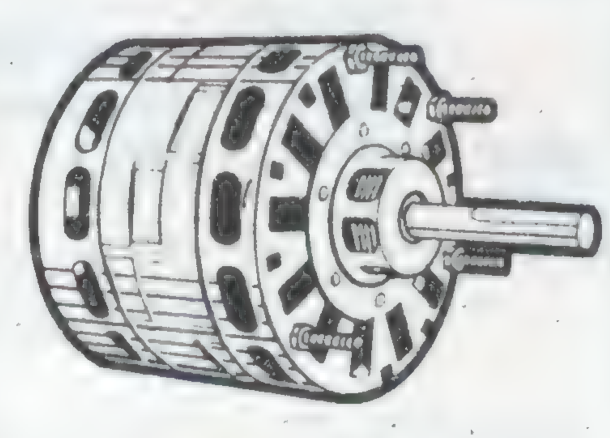
Universal Electric Shaded Pole Motors



1050 RPM 115V 60 Hz. Body 5-1/16" OD

No.	Univ. No.	HP	Amp	Body Long	Shaft
32787	326	1/7	5.2	3-1/2	1/2x3-1/2
32852	345	1/6	7.2	3-3/4	1/2x3-3/4

Universal Permanent Split Capacitor 3 Speed 1/4 HP

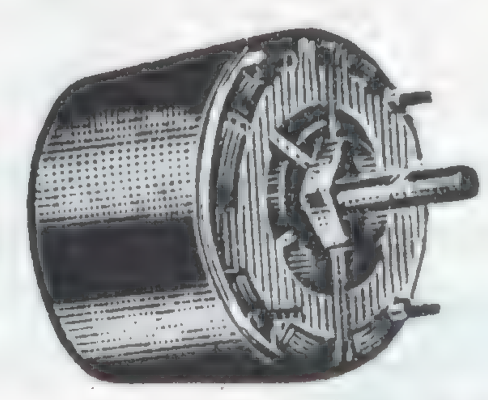


Shaded pole motor 1050 RPM. Has 4 studs on shaft end for mounting, body 4" long. Motor is electrically reversible.

Motor 1/4—1/5—1/6 HP

No.	Univ. No.	Volts	Amp	Body OD
32715	390	11.5	4.6	5-1/16
32716	391	230	2.0	5-1/16

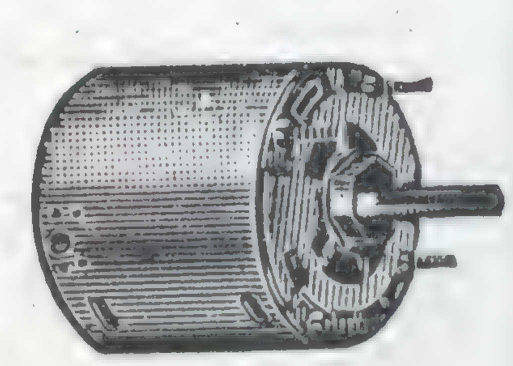
Universal Electric 460V Single Phase Air Conditioning Condenser Fan Replacement Motors For Bohn, Bryant and others. 1075 RPM Ball Bearing Reversible Rotation.



Motor body 5-5/8" OD with 2-1/2" OD mounting rings.

No.	Univ.	HP	Amps	Body L.	Shaft	Cap. 370V
32719	158	¾	2.2	6¼"	½x5"	10 Mfd.
32720	435	½	1.7	5"	½x5"	7.5 Mfd.

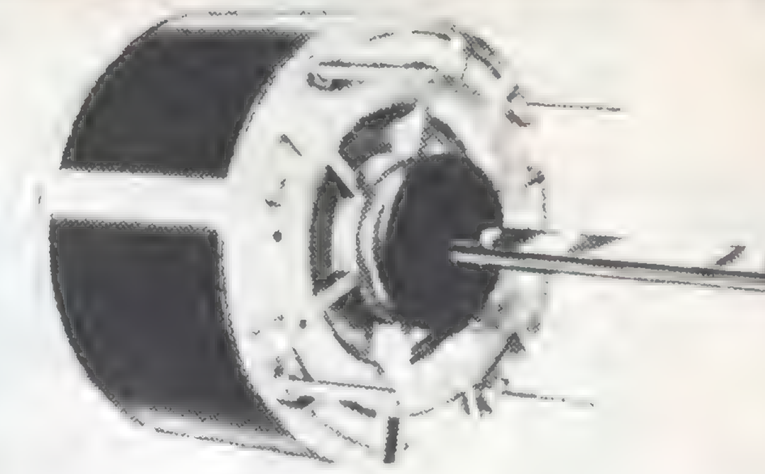
Universal Electric Permanent Split Capacitor Open Type Ball Bearing Motor Electrically Reversible



208/230V 60Hz 825RPM

No.	Univ.	H.P.	Amps	Body OD	Shaft OD	Length
32865	476	1/3	2.8	5-5/8"	1/2"	6"

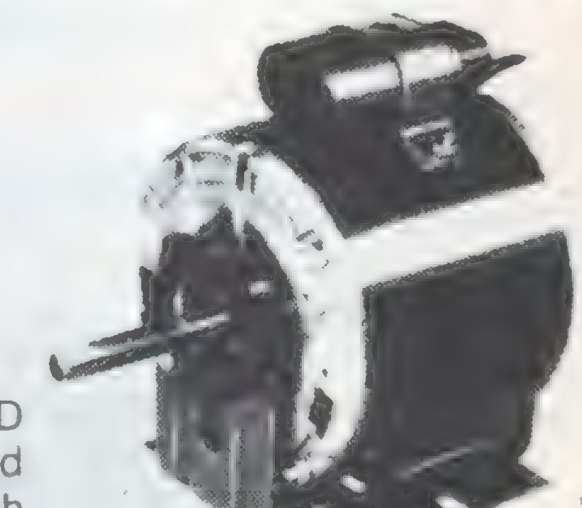
Universal Electric Condenser Fan Motors Permanent Split Capacitor 1075 RPM



These motors are totally enclosed for shaft up or down application. Reversible rotation. 1/2 x 5-1/2" shafts. 230 volts.

No.	Univ.	HP	Amps	Body Length	Cap.
32738	176	1/4	1.8	4-3/4	5 mfd.
32739	175	1/3	2.5	5	7.5 mfd.
32740	187	1/2	3.2	5-1/2	7.5 mfd.

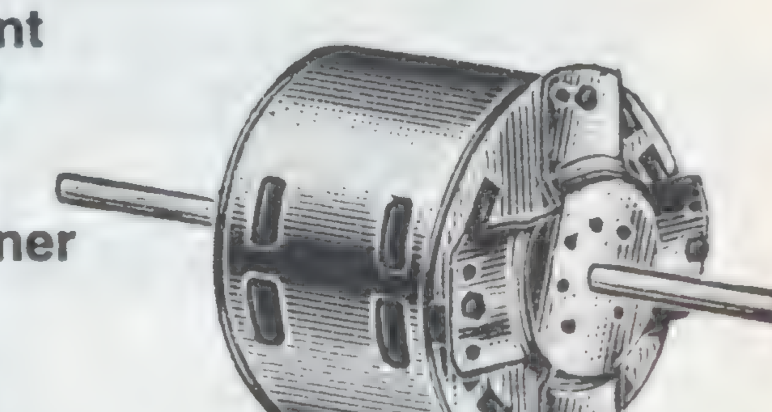
Universal Electric Permanent Split Capacitor 1/3 HP Base Mounted



These motors are 5-5/8" OD single shaft with capacitor and base included. 208/230V with 4-5/8" body length.

No.	Univ.	Rotation	RPM	Amps	Shaft
32742	0160	Reversible	1625	3.0	1/2x4

Universal Replacement for Delco 3 Speed Window Air Conditioner Motors



230V 60Hz
1075 RPM

Replaces those motors where one end bell was stationary and was used to mount the motor and the other end bell revolved along with the two shafts. The adapter plate must be used to replace this type of motor and is not used when replacing the regular two shafted motors. Adapter plate and capacitor are sold separately.

No.	Univ	HP at Speeds High	Med	Low	Amp.	Shafts
32754K	116	1/3	1/5	1/6	2.1	5¼x½x4⅝
32894	Adapter Plate with Hardware					

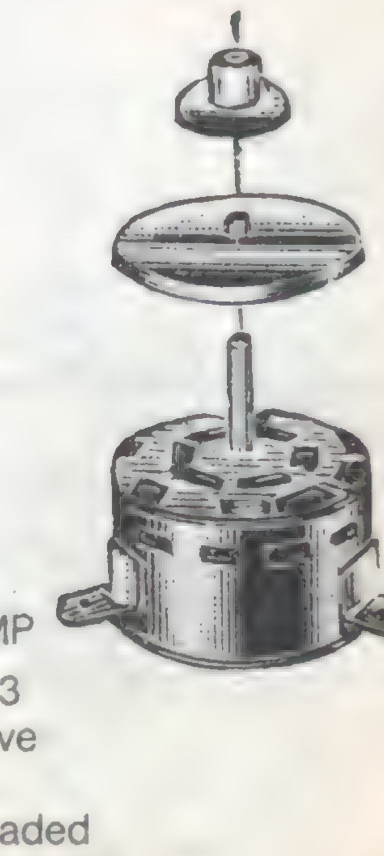
Universal Electric 3 Speed Permanent Split Capacitor Fan and Blower Duty



Motors rotation reversible. Require capacitors which are sold separately. 10 mfd. 370V.

No.	Univ.	Volt	Amp.	Shaft	HP At Speeds	Body
32879	150	208/230	4.9	½x5	¾H; ½M; ⅓L	5½Lx5⅝OD

Universal Replacement for Carrier Capacitor

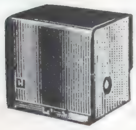


Ball Bearings 230V 60C 1075 RPM

No.	Univ.	HP	AMP
32889	152	1/5	1.3
49803	4 MFD 370V Capacitor for above		
32892	Plastic Press-on Rain Shield		
32893	Hub Adapter with 4-10-32 threaded holes on 1-7/16" centers for adapting original fan blade.		

SEE SEPARATE PRICE LIST

Honeywell Damper Motor
M436, M835, M836



These damper motors have spring return for use on residential and light commercial dampers. Has 2 position zone control and auxiliary low-voltage SPDT switch to operate auxiliary equipment. Supplied with 2 hexagon output shafts, bracket, and couplings. Nominal opening time 45 seconds. Maximum load in inch pound torque.

No.	Volt	Load	Area
73604	120	20	13 Sq. Ft.

Two Position Damper Motor 835A
To operate a zone damper and the heating or cooling system through built in switches. Uses 1 min. to open and 2 min. to close. 24V AC uses 2 wire low voltage.
73637

Parts For Damper Linkage



Ball joints take 5/16" diam. push rods. Arms are for ½" shafts. With bracket to mount Modutrol motor on side of duct.

No.	Includes
70489	Mtg. Bracket, Crank Arm, 2 Ball Joints

For Mounting Modutrol Motor On Top Of Duct

70490	Crank Arm, 2 Ball Joints

With Bracket To Mount Modutrol Motor To Operate 2 Dampers

70491	Mtg. Bracket, 3 Crank Arms, 4 Ball Joints

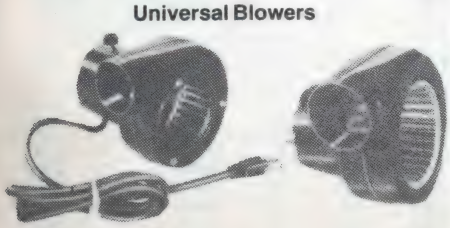
Dependo Damper Crank Arms And Swivel Control

Made of bright cadmium plated steel with special hardened 5/16"x24 lock screws with 7/16" hexagon heads. Has slot to take 1/4" bolt.

No.	Shaft	Adjust Leverage	Arm O.A.
73701	3/8"	3/4" to 2-7/8"	3-3/4"
73702	1/2"	3/4" to 2-7/8"	3-3/4"
73703	3/8"	3/4" to 4-5/8"	5-1/2"
73704	1/2"	3/4" to 4-5/8"	5-1/2"

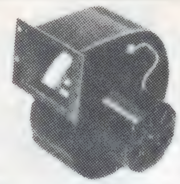
Dependo Damper Swivel Control
Steel damper control bright cadmium plated with 5/16" hold takes either 1/4" or 5/16" rods. Has 5/16"x24 special hardened set screw and 1/4"x20 threaded rod 7/16" long with lock washer and nut. Swivels on 30° arc.
73700

Universal Blowers



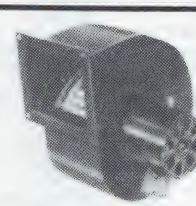
55 to 460 CFM 115V 60 Hz Single Phase

No.	CFM	HP	RPM	Amps.
32760	55	1/200	1550	.25



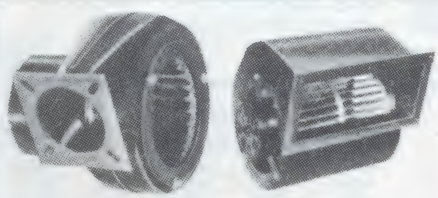
Multi Purpose Blower

No.	CFM	HP	RPM	Amps
32730	160	1/45	1595	1.1



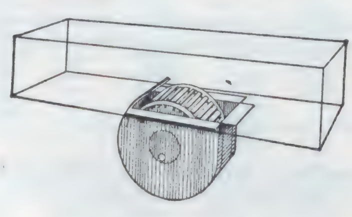
Multi Purpose Blower

No.	CFM	HP	RPM	Amps
32731	265	1/25	1630	1.5



Multi Purpose Blower

No.	CFM	HP	RPM	Amps
32732	460	1/15	1430	2.5
32761	90	1/40	3000	1.0



Steiner Air-Booster Blower

Air-Booster fits in round, square or rectangular ductwork with minimum width of 5". Has separate but enclosed 1550 RPM motor, 1/70 HP, resilient-mounted out of the air stream of squirrel cage blower. Operates on 115V, 60 Hz., 1 phase. Overall 7-3/8" W x 7" diam. Projects 5-¼" below opening. Complete with motor but without controls.

Booster Performance Data. Based on 8" Round Duct.

No.					
	Air Flow (CFM)	100	150	200	250
22178	Static Pressure (in H_2O)	.058	.050	.041	.032

Robin Hood Air Booster



Adds up to 240-420 CFM to any room. In the summer this can mean 1/2 ton more air conditioning. Used in the winter to transfer excess heat from one room to an adjacent room, or by duct to a nearby room. It can also be installed with a duct thermostat permitting use of the hot air remaining in the duct system when the main blower turns off.

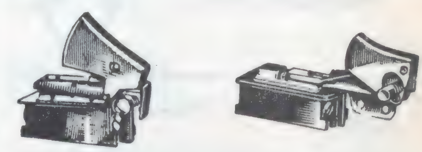
No.	Dimensions	CFM
61798	6" Diam. x 7-1/4"	240
61799	8" Diam. x 7-1/4"	420



C-H Small Motor Toggle Switch

Stem 15/32" diam. and 15/32" long.

No.	250V	125V	Switch	
21023	8A	16A	DPST	
21024	10A	20A	DPST	
21025	20A		DPST	
21026	10A	15A	DPDT	(has no OFF position)



Flush Mounting Appliance Switch

Normally open and momentary closed with latch to hold closed.

No.	250V	125V
21032-34	8A	16A
21035	10A	15A

21032
Same as above but with trigger at one end.
21034
Without latch-will not stay closed.
21035

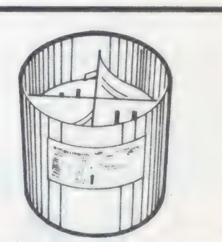


C-H 3 Pole Toggle Switch

One Hole mounting 15/32" with stem 15/32" long.

No. 21050, 51, 52 have body 1-15/16" long and 1-3/8" wide with capacity 1 HP 115V-575V AC and 10A, 250V. No. 21053 has body 2-3/8" long and 1-½" wide with capacity 1 or 3 HP 230-575V, and 20A 250V. No. 21052 has no OFF position. No. 21051 has OFF position.

No.	Switch
21052	3PDT
21053	3PST



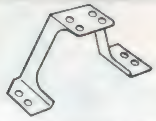
Ameri-therm Thermally Actuated Vent Damper

Ameri-therm Vent Damper has four cur-ed bimetal quadrants that are closed when not heated. No electrical current or controls are needed. AGA tested and design certified to meet ANSI standard Z 21.68. If properly installed, a hazardous condition, such as an explosion or carbon monoxide poisoning could result.

No.	Vent Size	Height Inches
60190	3"	4-¾"
60191	4"	5-½"
60192	5"	5-¾"
60193	6"	6-½"
60194	7"	6-¾"
60195	8"	7-¼"

Motor Parts

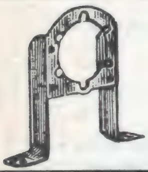
GE Mounting Brackets For 5KSP51 Motors



Motors mount on top of these brackets with 5⁄8" x 1⅛" centers. Bracket has 1-13/16" x 6" mounting holes.

No.	Shaft Center Above Base	No.	Shaft Center Above Base
44741	4⅛"	**44742**	5⅜"
45366	4-9/16"	**45367**	5⅜" with offset

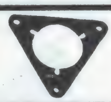
Foot Mountings For GE Unit Bearing Motors



Having mounting holes on 1-13/32" x6" centers

No.	Shaft Center
45368	6-3/16"

Triangle Mounting



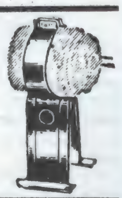
Mounting holes on 2⅜" centers.
44740

Shaft Adapter



Female ¼"-20 thread to screw on threaded shaft type motor to convert to ¼" round shaft 1" long.
42770

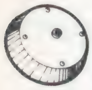
Dependo Motor Bracket For 4" Diameter Motors



Fits motors with a 4" diam. body. Bottom strap 2" wide with mounting holes on 1⅜" to 1¾" centers.

44336 6-3/16" Height of Center Shaft
44337 7" Height of Center Shaft

Rain Shield



32892



32744

For ½" diameter shafts. Shield diameter 6½.
32892 used for shaft end only
32744 used on either shaft or opposite end.

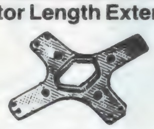
Lug Mount Adapters for 5⅝" Dia. Motors



Lugs have ¼" dia. slot with knock out to increase dia. to ¾".

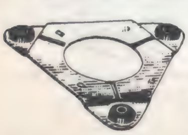
No.	Approx. Motor Dia.	Mtg. Dia. of Bolt Circle From	To	Lugs
43400	5⅝	6⅞	8⅛	Small
32834	5⅝	8½	12⅛	Large
32835	Grommet For ¼" Slot			Small
32836	Grommet For ¾" Slot			Large

Motor Length Extender



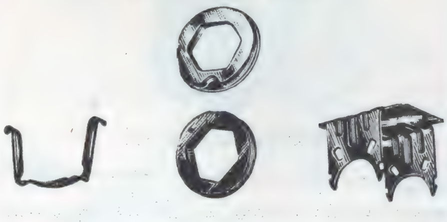
Stud holes on 5-3/16" diam. circle and fits studs on 3⅝" square centers and on 3" x 4¼" centers.
32818

Mounting Bracket For Universal Motors



Triangular bracket with rubber grommets on a 4⅜" diam. circle with mounting holes on 2-27/32" centers.
32812

Motor Bases For Universal Motors



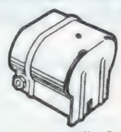
For motors that use a 2½" mounting ring.

Base No.	Fit Universal Electric Motor Models
32804	44, 48, 52, 54, 143, 147, 174, 373
32802	46, 50, 53, 55, 348
32808	46, 50, 53, 55, 101, 102, 113, 114, 136, 348
32827	107, 149

No.	Motor Body Long	Mtg. Ring Center	Shaft Height
32804	3½"	4⅜"	3"
32802	4"	4¾"	2-11/16"
32808	4"	4¾"	3-1/2"
32827	5¼"	5⅞"	3"

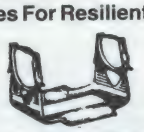
32809 Clips For 2½" Rings
32810 Rubber Rings 2½" OD
32816 Rubber Rings 2¼" OD
32817 Rubber Ring Without Metal Band For Direct Drive Blowers 2½" OD With Rubber Flange

Capacitor Mounting Bracket



Any standard oval 1-5/16" x 2-5/32" capacitor will be firmly held.
32819

GE Bases For Resilient Mounting



For 5KSP 29 Motor Center Shaft 2⅝" High Mounting Holes Parallel Shaft 3⅝" Across Shaft 1-11/16"

44577	BG	5" Centers	2¼" OD
44578	DG	5¼" Centers	2¼" OD
44579	FG	5½" Centers	2¼" OD

Rubber Mounting





Studs are separated by ¼" thickness of rubber when molded in the ¾" thick rubber cushion.

No.	Diam.	Stud Long	Stud Thread
6104	1¼"	13/16"	5/16"-18
6105	2"	1-1/16"	3/8"-16

No.	Rubber Diam.	Rubber Thick	Stud Long	Stud Thread
49932	1"	¾"	⅜"	1/4"-20
49933	1"	1"	⅝"	5/16"-18
49934	1⅝"	1"	⅝"	5/16"-18
6109	1⅝"	1½"	⅝"	5/16"-18

No. 49934 and 6109 are conical with 1-3/16" diam. top)

½" and ⅝" 48-56 Frame Motor Shaft Adapter



No.	For Shaft	No.	For Shaft
44348	From ½" to ⅝"	**44349**	From ⅝" to ¾"

Extra Rubber Mounting Rings

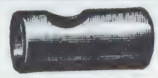


For 5KSP39 and 5KCP39 motors. ID 1-11/16"

No.	Fig.	O.D.	Wide
44230	A	2¼"	5/16"
44231	A	2½"	5/16"
44232	B	2½"	7/16"

(No. 44232 Flange 1/16" Wide 2¾" OD)

Adapter Bushings

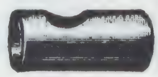


To be used for replacement motors where larger shaft OD is Required.

No.	ID In.	OD In.	L In.
32724	¼	5/16	1
32725	5/16	3/8	1-1/16
32726	3/8	1/2	1-1/16
32727	1/2	5/8	1½

(is split bushing with 3/16" key furnished.)

Steel Bushings



Bushing has hole for hub set screw.

No.	O.D.	I.D.	No.	O.D.	I.D.
7850	½"	¼"	**8019**	⅞"	⅝"
7851	½"	5/16"	**8029**	⅞"	¾"
7852	½"	⅜"	**7860**	1"	⅝"
7854	⅝"	½"	**7861**	1"	¾"
7856	¾"	½"	**7863**	1"	⅞"
7858	¾"	⅝"	**8037**	1⅛"	1"
			7865	1¼"	1"

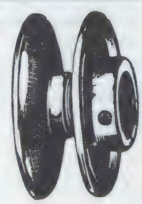
Standard Keys



Supplied in 4" lengths.

No.	Size
7312	1/8" Square
7313	3/16" Square
7314	1/4" Square

Variable Pitch Diameter Pulleys

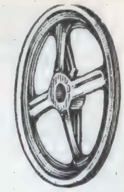


Pitch may be changed by unscrewing one section of the pulley.

O.D.	Pitch Diam. A Belts Min.	Pitch Diam. A Belts Max.	Pitch Diam. B. Belts Min.	Pitch Diam. B. Belts Max.
3¼"	2.0"	3.0"	2.5"	3.0"
3¾"	2.4"	3.4"	2.7"	3.7"
4.15"	2.8"	3.8"	3.7"	4.7"
4.75"	3.4"	4.4"	3.7"	4.7"
5.35"	4.0"	5.0"	4.3"	5.3"

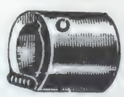
No.	Bore	O.D.	No.	Bore	O.D.
7870	½"	3¼"	**7890**	¾"	3¼"
7871	½"	3¾"	**7892**	¾"	4.15"
7872	½"	4.15"	**7893**	¾"	4.75"
7873	½"	4.75"	**7445**	⅞"	3¼"
7880	⅝"	3¼"			
7881	⅝"	3¾"	**7446**	⅞"	3¾"
7882	⅝"	4.15"	**7442**	⅞"	4.15"
7883	⅝"	4.75"	**7443**	⅞"	4.75"
			7444	⅞"	5.35"

Blower Pulleys



For Shafts ¾" Diam. No.	1" Diam. No.	Pulley OD
61924	61934	5"
61925	61935	6"
61926	61936	7"
61927	61937	8"
61928	61938	9"
61929	61939	10"

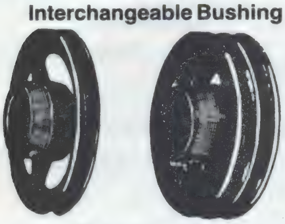
Maurey Interchangeable Bushings



For use with all diameters of Maurey cast iron V-Pulleys. Bushing is 1-11/16" OD by 1-9/16" long.

No.	Bore	No.	Bore
26553	¾"	26561	1¼"
26555	⅞"	26548	1⅜"
26559	1⅛"		

Maurey Cast Iron V-Pulleys For Use With Interchangeable Bushing



All pulleys are 1-11/16" ID to fit the interchangeable bushing.

One Groove Pulley For "A" Belts Up to 17/32" Wide

No.	O.D.	No.	O.D.
26563	5"	26565	6"

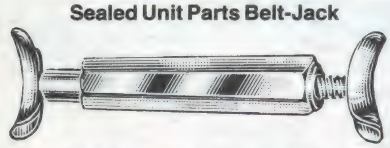
Two Groove Pulleys For "A" Belts Up to 17/32" Wide

No.	O.D.	No.	O.D.
26600	3"	26607	5"
26602	3½"	26610	6"
26604	4"		

Two Groove Pulleys For "B" Belts Up To 11/16" Wide

No.	O.D.	No.	O.D.
26627	3.6"	26632	5"
26629	4"	26633	5.2"
26631	4.6"		

Sealed Unit Parts Belt-Jack



Tool will set the belt tension while you align the belt pulleys.

No.	Model	
60592	BJ-10	Belt Tightener

HACO V-Belts



Made to RMA and API standards.

3L Series

New No.	Outside Length	New No.	Outside Length	New No.	Outside Length
3L180	18	3L290	29	3L400	40
3L190	19	3L300	30	3L410	41
3L200	20	3L310	31	3L420	42
3L210	21	3L320	32	3L430	43
3L220	22	3L330	33	3L440	44
3L230	23	3L340	34	3L450	45
3L240	24	3L350	35	3L470	47
3L250	25	3L360	36	3L480	48
3L260	26	3L370	37	3L540	54
3L270	27	3L380	38	3L600	60
3L280	28	3L390	39		

4L Series

New No.	Outside Length	New No.	Outside Length	New No.	Outside Length
4L170	17	4L420	42	4L660	66
4L180	18	4L430	43	4L670	67
4L190	19	4L440	44	4L680	68
4L200	20	4L450	45	4L690	69
4L210	21	4L460	46	4L700	70
4L220	22	4L470	47	4L710	71
4L230	23	4L480	48	4L720	72
4L240	24	4L490	49	4L730	73
4L250	25	4L500	50	4L740	74
4L260	26	4L510	51	4L750	75
4L270	27	4L520	52	4L760	76
4L280	28	4L530	53	4L770	77
4L290	29	4L540	54	4L780	78
4L300	30	4L550	55	4L790	79
4L310	31	4L560	56	4L800	80
4L320	32	4L570	57	4L820	82
4L330	33	4L580	58	4L840	84
4L340	34	4L590	59	4L860	86
4L350	35	4L600	60	4L880	88
4L360	36	4L610	61	4L900	90
4L370	37	4L620	62	4L920	92
4L380	38	4L630	63	4L940	94
4L390	39	4L640	64	4L960	96
4L400	40	4L650	65	4L1000	100
4L410	41				

5L Series

New No.	Outside Length	New No.	Outside Length	New No.	Outside Length
5L250	25	5L470	47	5L680	68
5L260	26	5L480	48	5L690	69
5L270	27	5L490	49	5L700	70
5L290	29	5L500	50	5L710	71
5L300	30	5L510	51	5L720	72
5L310	31	5L520	52	5L730	73
5L320	32	5L530	53	5L740	74
5L330	33	5L540	54	5L750	75
5L340	34	5L550	55	5L760	76
5L350	35	5L560	56	5L770	77
5L360	36	5L570	57	5L780	78
5L370	37	5L580	58	5L800	80
5L380	38	5L590	59	5L820	82
5L390	39	5L600	60	5L840	84
5L400	40	5L610	61	5L860	86
5L410	41	5L620	62	5L880	88
5L420	42	5L630	63	5L900	90
5L430	43	5L640	64	5L920	92
5L440	44	5L650	65	5L940	94
5L450	45	5L660	66	5L960	96
5L460	46	5L670	67		

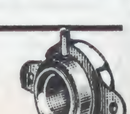
AO Belt Heavy Duty

New No.	Outside Length	New No.	Outside Length	New No.	Outside Length
A026	28.3	A051	53.3	A075	77.3
A033	35.3	A055	57.3	A078	80.3
A035	37.3	A056	58.3	A080	82.3
A036	38.3	A060	62.3	A085	87.3
A037	39.3	A062	64.3	A090	92.3
A038	40.3	A064	66.3	A096	98.3
A042	44.3	A066	68.3	A112	114.3
A043	45.3	A068	70.3	A120	122.3
A046	48.3	A070	72.3	A128	130.3
A048	50.3				

B Belt Heavy Duty

New No.	Outside Length	New No.	Outside Length	New No.	Outside Length
B038	40.8	B067	69.8	B097	99.8
B042	44.8	B068	70.8	B099	101.8
B046	48.8	B070	72.8	B100	102.8
B048	50.8	B071	73.8	B103	105.8
B051	53.8	B075	77.8	B105	107.8
B054	56.8	B077	79.8	B108	110.8
B055	57.8	B078	80.8	B112	114.8
B056	58.8	B080	82.8	B116	118.8
B059	61.8	B081	83.8	B120	122.8
B060	62.8	B083	85.8	B124	126.8
B061	63.8	B085	87.8	B128	130.8
B062	64.8	B090	92.8	B133	135.8
B064	66.8	B093	95.8	B136	138.8
B065	67.8	B095	97.8	B144	146.8
B066	68.8	B096	98.8		

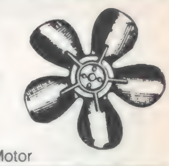
Flange Type Bearings



Replaces bearings in Viking "W" and "V" series blowers.

61953 3/4" OD Shaft

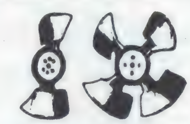
Five Blade Fan For Unit Bearing Motors



Has four 17/64" holes on 1" diam. circle.

CW	CCW	Diam.	Depth Of Fan	Motor
21553	21593	7"	1"	1.5W
21554	21594	8"	1-5/8"	6W
21555	21595	9"	1-5/8"	9W
21556	21596	10"	1"	9W
	21610	8"	1"	4W
21600		8"	1"	4W

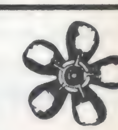
Fans For GE Unit Bearing Motors Type 5KSP51



Two and four blade fans made without hubs to fit the prongs of GE unit bearing motors. 5/16" holes on 1" centers.

No.	No. Blades	Diam. Fan	No.	No. Blades	Diam. Fan
44743	2	7-3/4"	44745	4	8-3/4"
44744	4	7-3/4"	44746	4	10"

Aluminum Fan Blade For Motors With Shafts



For CW motors facing shaft end.

4 Blade—6" Fan

	Suction	Shaft
21604	21614	1/4"

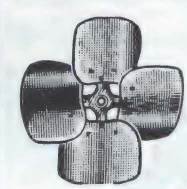
5 Blade—10" Fan

21509	21579	5/16"

5 Blade—8" Fan

Blower	Suction	Shaft
21570		¼"
21560		¼"
21571		5/16"
21562		¼"

4 Blade Aluminum Fans

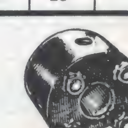


With Aluminum spider and hub zinc plated.

Clockwise Rotation Facing Motor Shaft

Blower	Suction	Bore	Size	Pitch
49688	49553	5/16"	10"	18°
49573	49554	5/16"	10"	23°
49689	49555	3/8"	10"	23°
49690	49556	5/16"	12"	18°
49691	49557	3/8"	12"	18°
49692		1/2"	12"	18°
49574		5/16"	12"	23°
49575	49558	3/8"	12"	23°
49576	49559	1/2"	12"	23°
49693	49586	3/8"	14"	18°
49694	49587	1/2"	14"	18°
49577		3/8"	14"	23°
49578	49588	1/2"	14"	23°
49695		3/8"	16"	18°
49696		1/2"	16"	18°
49579		3/8"	16"	23°
49580	49589	1/2"	16"	23°
49581		5/8"	16"	23°
49697G		1/2"	18"	18°
49582G		1/2"	18"	23°
49583G		5/8"	18"	23°
49698G		1/2"	20"	18°
49584G		1/2"	20"	23°
49585G		5/8"	20"	23°

Hubs For Fans

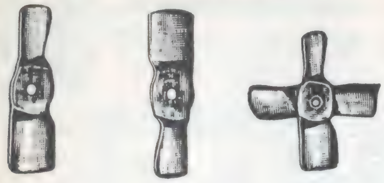


These machined hubs will mount pressure type fan blades to a motor shaft where pulley is not necessary.

No.	For	No.	For
8120	1/2" Shaft	8121	5/8" Shaft

SEE SEPARATE PRICE LIST

Pressure Type Fans



Right Blower — Left Suction — Right Blower

May be used in pairs to make four blade fans.

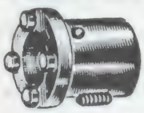
Motor Rotation Facing Shaft
Blower—When Motor Rotates CW
Suction—When Motor Rotates CCW

Right Hand	Fan Size	Right Hand	Fan Size
26152	10"	**26154**	14"
26153	12"	**26155**	16"

Motor Rotation Facing Shaft
Suction—When Motor Rotates CW
Blower—When Motor Rotates CCW

Left Hand	Fan Size	Left Hand	Fan Size
26156	10"	**26158**	14"
26157	12"	**26159**	16"

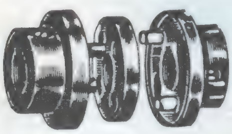
Interchangeable Flanged Bushing For Pressure Type Fan



These interchangeable flange bushings fit the 1, 2, or 3 groove cast iron pulleys and have 4 hexagon head screws and lock-washers to take the Maurey pressure type fans.

No.	Bore	No.	Bore
26537	3/4"	**26539**	1"
26538	7/8"	**26546**	1-1/8"

Congress Flexible Couplings



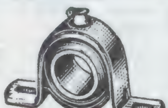
Bores over 1/2" also have keyways.

No.	Outside Diam.	Bore	No.	Outside Diam.	Bore
7391	2"	1/2"	**7393**	2"	3/4"
7392	2"	5/8"	**8596**	2-3/4"	1"

Extra Composition Rubber Washers

No.	Description	No.	Description
8590	For All 2" Couplers	**8593**	For All2-3/4" Couplers

Pillow Block Bearings



Firmly held in a steel housing with munting holes on 3" centers. Bottom 4" long by 1-1/8" wide.

No.	Shaft Diam.	Mtg. Hole Centers	Base To Shaft Center	Width
61949	5/8"	3"	1"	1-1/8"
61950	3/4"	3"	1"	1-1/8"
61951	1"	3"	1"	1-1/8"
61952	1"	3-1/2"	1-3/16"	1-1/2"

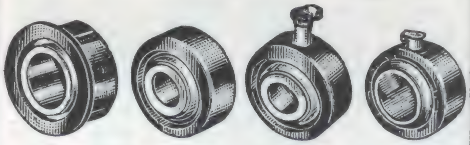
Replacement Shafts For Blowers

No.	Diameter	Long
61956	5/8" OD	20"
61957	3/4" OD	20"
61958	1" OD	25"

Thrust Spacer Washers For End Play

No.	Description
61962	5/8" OD Spacer
61963	3/4" OD Spacer
61964	1" OD Spacer

Lau Cartridge Type Bearings For Blowers



A B C D

Cartridge type bearings fit spider type brackets used on 9", 10", and 12" blowers. 1-15/16" OD.

No.	Fig	Shaft Dia	Description
61930	A	3/4"	With Thrust Collar
61931	A	3/4"	With Journal
61932	A	1"	

Sealed Type Bearing With Insulator

No.	Fig.	Shaft Dia.	OD
61940	B	5/8"	1-13.16"
61941	B	3/4"	1-13/16"
61942	B	1"	2-1/2"

Oil Type Bearing With Insulator

With oil cup.

No.	Fig.	Shaft Dia.	OD
61943	C	5/8"	1-13/16"
61944	C	3/4"	1-13/16"
61946	C	1"	2-1/2"

Randall Oil Type Bearing With Insulator

No.	Fig.	Shaft Dia.	OD
61947	D	3/4"	1-27/16"
61948	D	1"	1-27/32"

Locking Collars

61967	5/8"	**61968**	3/4"	**61969**	1"

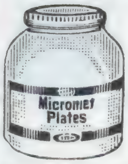
Bearing Bracket Kit



Fits most blowers from 9" to 16". Has mounting holes on 11-3/8", 12-5/16", 14-5/16", and 16-23/32" centers. Shaft included in kit.

No.	Shaft Diam.	Mounting Hole Centers
61954	3/4"	11-3/8"—12-5/16"—14-5/16"—16-23/32"
61955	1"	11-3/8"—12-5/16"—14-5/16"—16-23/32"

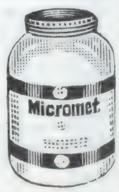
Micromet Plates Cooling Water Treatment



For economical self feeding treatment to reduce scale formation is small cooling towers using only 1/2 lb. per ton. Micromet in flat plate pieces is placed in a mesh feeder bag hung under the spray or in the sump. 5 lb. bottle incl. a feeding bag.

No.	Container
64404	5 Lb. Bottle Water Feeder Bag

Micromet Crystals



Used in feeders on the make-up water line. Water requires 1/4 lb. crystals per ton.

No.	Container Size	Per Case
64408	3 Lbs.	12
64409	8 Lbs.	4
64410	20 Lbs.	

6R Micromet

A food grade phosphate for inhibiting scale on ice makers and other equipment using a low volume of water. Recommended for use with No. 64422 feeder.

64414 8 oz. Package

FOMOFILL General Purpose Foam



35 Oz. can produces about 4 gal. of foam or 50 ft. of extruded bead 1" wide. Dries tack-free in 20 to 30 minutes.

No.	Description
60716	35 oz. can
60717	

Insta-Foam Froth Pak Foamed in Place Polyurethane Insulation



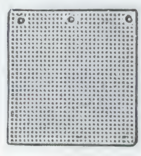
The Froth-Pak package has 2 aerosol dispensing containers designed to feed the two chemicals through a nozzle where they mix to make the polyurethane foam. The chemicals make a rigid product in about a minute. It dispenses the foam as 40 to 50% expanded and it further expands to its final volume in seconds. Must be used at room temperature of 70° to 75° F. Chemicals in the separate closed containers will remain fresh for one year. Once opened the product should be used up in 30 days. Incl. 24" tubing with two caulking nozzles.

No.	Capacity Board Foot	Cubic Foot
60700	9.5	.75 cu. ft.

Extra Nozzles with 24" Tubing

60703	NRL	24" Tubing Pour Nozzle
60704	NFN	24" Tubing Spray Nozzle
60705	NCL	24" Tubing with Caulking Nozzle

Micromet Plate Feeding Bags



These plastic mesh feeding bags hold about 5 lbs. of Micromet. Supplied with 2 insulated wires to hang under spray of the cooling water system. Bags 11-1/2"x12".

64413

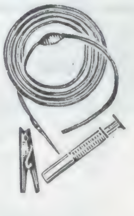
All Purpose One Gallon Plastic Sprayer



Lightweight one gallon plastic container with hand sprayer on a 28" flexible hose. Nozzle adjusts from mist up to a 12 Ft. jet stream.

No.	Hand Sprayer
18142	Gallon Capacity

Liquid Drip Feeder



Used to feed liquid scale inhibitors, algaecides, or water treatment solutions into recirculating cooling water systems. The feeder has a calibrated coil of plastic tubing with a probe to insert in the lowest part of the plastic treatment bottle and a weighted end to keep the end submerged at a level to feed the solution at a required rate. A syringe is used to prime the line and plastic clothes pin to hold the tubing.

No.	
64424	Continuous Feeding For Small Systems

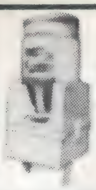
Micromet Feeder



Used to prevent lime formation in small ice machines, vending machines, and coffee brewers. It holds 8 oz. of No. 64414 Micromet. Has 3/8" FIPT connection.

64422 Feeder 8 oz.

SEE SEPARATE PRICE LIST



CHEMICATOR

L-1 Liquid Feeder

An automatic control of recirculating water in cooling towers and evaporative condensers from 10 to 200 tons.

No.
28390

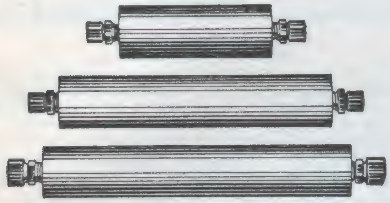
M-55 Microbiocide
Controls growth of bacteria and fungi found in recirculating water cooling towers, air washers and evaporative condensers.

No.	Unit
28391	1 Gal.

Chemicator Formula 870
Prevents build-up of mineral scale, disperse silt and mud, and controls corrosion in cooling tower systems and evaporative condensers.

No.	Unit
28393	1 Gal.

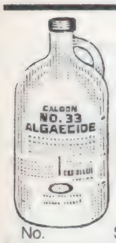
Water Conditioners



The useage ranges from residential powered humidifiers to domestic or commercial ice making equipment.

Useage Table

No.	Model	Useage	
15361	HR 1	Up to 400 lbs. Ice Cuber	1/4" Brass Compression Fittings
15362	2 PP	400 to 800 lbs. Ice Cuber	1/4" Brass Compression Fittings
15363	8 PP	800 to 1200 lbs. Ice Cuber	3/8" Brass Compression Fittings



No. 33 Algaecide

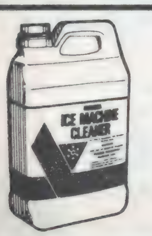
A liquid algaecide for continuous feeding tc control the growth of algae and slime.

No.	Size
64415	1 Gallon

Nickel Safe Ice Machine Cleaner

This specially formulated product is designed for the removal of scale deposits that develop from ice machines using nickel or tin-plated evaporators.

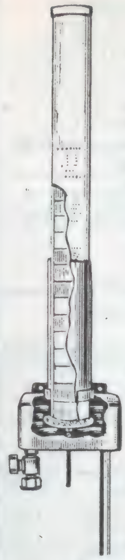
No.	Description		
64425	Pint	**64426**	Gallon



Metal Safe Ice Machine Cleaner

New special formulation removes the normal scale that develops in ice machines. Cleaner is metal safe on all nickel and tin-plated evaporators.

No.	Description		
22228	8 ozs.	**22229**	Gallon



A Chemical Water Control That Works Unattended

Controls scale, corrosion, algae, and slime. It operates automatically and reduces service calls. It holds about 8 lbs. of different briquettes. These chemicals are fed one at a time, in sequence, automatically, as needed to the sump. The plastic Chemicator unit mounts on the tower. A 3/8" copper water line from the pressure side of the recirculating pump connects to the inlet valve. The Chemicator works only when the pump operates. The chemicals are added at the time they are needed.

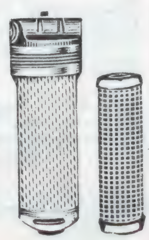
No.	Description
28360N	Chemicator Feeder Unit Only

No.	Chem Tube	Parts Per Million	Description and Application
28365N	101	200-Up	For suburban water with 7.8 to 8.6 pH with scale and corrosion control.
28384N	J2		For well water with lime. High acid pack. Where pH control of alkaline water is main treatment.

Deep Purple Algaecide Briquette

A large 4-1/2 oz. briquette of 80% potassium permanganate and 20% inert chemicals for extra shock treatment of bad algae conditions. These do not fit in Chemicator units. Used to clean up a tower full of algae and should be washed into sewer before putting tower back in operation.
28388N

Aqua Guard Cold Water Filters Sediment & Rust Filter Kit



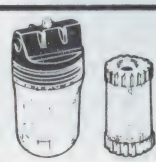
The filter is made of cycolac plastic construction and is 3-1/2" dia. by 13-3/4" long. The pipe size is 3/4" IPS inlet and outlet.

No.	Description
96790G	Filter & 1 Sediment Cartridge
96791G	Extra Sediment Cartridge

Taste & Odor Filter Kit

Same as above except that used where tastes and odor, such as chlorine or hydrogen sulfide are objectionable.

No.	Description
96792G	Filter & 1 Carbon Cartridge
96793G	Extra Carbon Cartridge

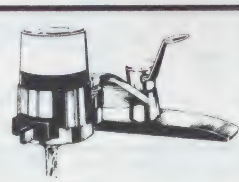


Aqua-Guard Water Faucet Filter

For installation on counter top or sinks. Needs 3/8" hole, or can be mounted in sink's spray attachment hole if desired. 3-year filter warranty. Quick and easy installation.

No.	Description		
96818	Compact In-line Filter	**96819**	Filter For Above

Aqua-Guard Water Faucet Attachment Filter



Connects to faucet or tap. Removes chlorine, rust, fishy, musty and other offensive tastes and odors as well as filtering cloudiness and dirt.

No.	Description		
96808Y	Faucet Filter	**96809Y**	Filters for above

BesTest Spray On Enamels



- Dries fast,
- Dries hard,
- Dries smooth,
- Interior or Exterior
- Rust Cor™ Formula
- 16 oz. Aerosol Spray Cans

No.	Color		
19860	Glossy Black	**19862**	Shining Silver
19861	Glossy White	**19863**	Ascot Grey

BesTest "SPRAY SOLVE" Solvent-Degreaser

22279



BesTest "SLICK" Silicone Lubricant Spray

22277

BesTest "Ez-Duz-It" Loosener/Penetrate Spray

- **Frees Nuts/Bolts/Fittings**

22278



WD-40 Penetrates-Lubricates And Protects

Non-oily penetrant that will free rusted and corroded parts. It helps remove rust, corrosion, dirt and grease.

No.	Size
28355	12 oz. spray can

WD-40 Hand Spray and Gallon Can



Buy WD-40 in gallon size and save about 75% of the cost of the 12 oz. spray can. Fill and refill this empty hand spray metal can applicator from the gallon can.

No.	Description		
28356	One Gallon	**28357**	Empty Metal Spray Can

Liquid Wrench



Whenever two metal parts are frozen together by rust and corrosion, a few drops of Liquid Wrench will loosen and free the parts without damage to the metal.

No.	Size
21522	15 oz.

Pipetite-Stik



A non-setting compound made of resins and finely divided inorganic material that lubricates and seals threaded joints. Approx. 1-1/2 oz. stick

3228

SEE SEPARATE PRICE LIST



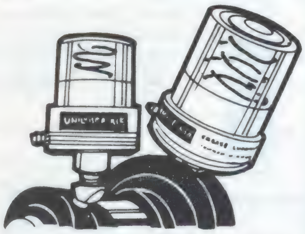
Tele-Spout Oiler

Soft Plastic squeeze bottle with telescoping flexible spout that reaches up to 14". Has 5 oz. rust inhibited top quality lubricating oil.
1499

Rust Eliminator

A few drops of penetrant (rust eliminator) loosens rusted nuts and bolts.
1498

UNILUBE... Automatic Grease Bearing Dispenser



Lubricator adjusts the flow of grease to bearings automatically. For application to anti-friction bearings with seals or shields, bronze, oilite or open bearings, oscillating ball or roller bearings and bearings requiring flushing action. Designed for operation in ambient temperatures of 10⁰F to 250⁰F. Can be installed in any position.

No.	Grease Capacity	Delivery Capacity
26596	1.6 oz.	1.3 oz.
26597	5.3 oz.	4.3 oz.

Slic-tite Teflon Thread Paste



Heavy duty thread sealing paste is not toxic, easily applied, will not stain, dry out or harden. Holds pressures to 10,000 PSI at temperatures from -50⁰ to +500⁰F.

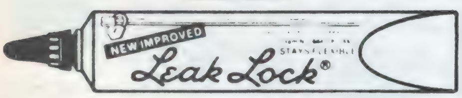
No.		No.	
29231	1/2 Pint Brush in Cap	**29233**	Pint

Anti-Seize Lubricant

Assures easier disassembly. Prevents seizing, galling and corrosion. Extreme temperature lubricant up to 2000⁰F.

No.	Size
19131	1 oz. Tube
19132	8 Fl. oz. Brush Top Container

Leak Lock



No.	Size
19749	1-1/2 oz. Tube
19798	16 oz. can
19797	4 oz. Brush in Cap

Trace Refrigerant Leak Detector



Trace is a red dye refrigerant leak detector which is used to find leaks in refrigerating systems using freon and methyl chloride. Trace will not harm systems. Add 1/8 oz. directly to the refrigerant for each pound of refrigerant in the system. Cannot ship P.P.

No.	Size	No.	Size
14266	4 oz. Charge it Bottle	**14268**	1 Pint

Gas Bubble Leak Detector

A 8 oz. plastic bottle soap type gas leak detector with a workable temperature range of -50⁰F to 212⁰F. Comes with a Dauber applicator.

No.	Description
14270	Leak Detector

Devcon Pocket Epoxy

Quick curing 5 minute pocket epoxy is 20" long and comes on a spool with resin and hardener layered together. Servicemen need only rip off exact amount, roll in fingers to mix, and apply to repair.
19770

Thawzone Liquid Dehyrdant

Thawzone chemically "dries" all fluorinated refrigerants. Frees frozen systems in 5 minutes and prevents refreezing. Cannot ship P.P.

No.	Size
14245	1 oz.
14246	4 oz. Bottle
14247	16 oz. Can

Supco

This special Supco is added to the oil in compressors and motors to prevent acid and sludge forming on bearing surfaces. It helps reduce friction on all moving parts, prevents rusting and corrosion, and increases the efficiency of the unit. Cannot Ship P.P.

No.	Size
19748	8 oz. Plastic Bottle
19751	32 oz. Plastic Bottle

Refrigeration Oil

Refrigeration oil is used in and recommended by many compressor manufacturers. Cannot Ship P.P.

No.	Size	No.	Size
Grade 3GS, 150 Visc.			
60652	1 Gallon	**60653N**	5 Gallon
Grade 4GS, 300 Visc. Same as Grade D			
60655	1 Gallon	**60656N**	5 Gallon
Grade 5GS			
60658	1 Gallon	**60659N**	5 Gallon

Zerol Refrigeration Oil

This oil is more soluble with refrigerants at normal temperatures and much more soluble at lower temperatures. Cannot Ship P.P.

No.	Size Container
9081	1-Gal Bottle

Calgon Refrigeration Oil

OEM approved. Meets all stringent requirements of a compressor oil.

No.	Viscosity		No.	Viscosity	
9300	C3	1 gallon	**9302**	C5	1 gallon
9301	C4	1 gallon	**9303**	C4	55 gallon

J.W. Harris Silver Solder Safety-Silv 50 And Safety-Silv 35

Silver	Copper	Zinc	Cadmium	Melting Point	Flow Point	AWS-ASTM
50	15.5	16.5	18	1160° F	1175°	BCuP-5
35	26.0	21.0	18	1125° F	1295° F	BAg-2
56	22.0	17.0	None	1145° F	1205° F	BAg-7

(Silver, Copper, Zinc, Cadmium: Percentage of Contents)

No.	Diam.	Troy Oz. Per Package	Approx. Inches
Safety-Silv 1305			
3140	1/32"	1 Oz.	268"
3141	3/64"	1 Oz.	118"
3142	3/64"	5 Oz.	590"
3143	1/16"	1 Oz.	66"
3144	1/16"	5 Oz.	330"
Safety-Silv 1350G			
3145	1/16"	1 Oz.	66"
3146	1/16"	5 Oz.	330"
Safety-Silv 1410			
3147	1/16"	1 Oz.	66"
3148	1/16"	5 Oz.	330"

Cadmium Free J.W. Harris Safety-Silv 56%

Food handling equipment requires a low melting point cadmium free silver alloy. It has a melting range between the two Safety-Silv solders and has a combination of the good features of both solders. Cadmium free solder is non-hazardous and required where it may come in contact with food.

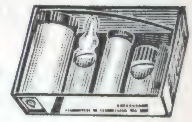
3274H	1/16"	1 Troy Oz.	66"
3249H	1/16"	5 Troy Oz.	330"

TKO Acid Test Kit



One step acid test kit, all you do is add the oil to be tested up to the line on the neck of the bottle. Shake the bottle. If the color stays purple oil is safe, if it changes to yellow oil is acid.
60632

Uni-Kit Disposable Acid Test Kit



This Uni-Kit one time acid test kit will make an accurate quick test of the acidity of the compressor oil. The kit includes 2 small sealed bottles of measured test solution and a small bottle to measure the right amount of oil sample needed, and a large shake out bottle. The two chemicals are put in the shake out bottle and the oil sample is added. The bottle is shaken and if acid is present the fluid is colorless, and if the fluid is pink the oil has no acid and is safe to use.
61652

Bee/Wasp Spray

Instantly kills wasps, hornets, bees, yellow jackets and spiders. Drops stinging insects instantly from a distance of ten feet. Accurate stream spray stops and kills them on contact. For outdoor use only. Must be handled with care.
60639

J.W. Harris Stay-Silv 15 and Stay-Silv 5



The original alloys used for brazing copper, brass, and bronze to each other or to themselves.

Silver	Phosphorus	Copper	Melting Point	Flow Point
15%	5%	80%	1185⁰F	1300⁰F
5%	6-1/4%	88-3/4%	1185⁰F	1300⁰F

(Silver, Phosphorus, Copper: Nominal Contents)

Stay-Silv 15 In Approx. 1 Lb. Package			
3281	.05x1/16	**3283**	.05x1/8
Stay-Silv 15 In Approx. 1/4 Lb. Package			
3280	.050x1/16	**3282**	.05x1/8
Stay-Silv 5 In Approx. 1 Lb. Package			
3287	1/16 Round	**3289**	.05x1/8 Flat

QUICK SILVER

An alloy of 1 to 2% of silver, 5.8 to 6.2% of phosphorus, .5 to 1.5% of tin, and the balance of copper. Melts at 1190⁰F and flows at 1480⁰F. Brazing temperatures from 1300⁰ to 1500⁰F.

3220 .050x1/8" 1 Lb. Pkg.

DYNA FLOW Brazing Alloy



Contains 6% silver, 6% phosphorus and 88% copper.

3221 1 Lb. Pkg.



Oxweld No. 25M Bronze Rod

Used for high strength wear resisting welds in copper, brass or bronze, and for bronze welding malleable iron, steel, or cast iron. Sold Only In Pkg. of 10

22897	1/16"	**22898**	3/32"	**22899**	1/8"

SEE SEPARATE PRICE LIST

J.W. Harris Phosphorus Copper Alloy Solder

About 7-1/8% and 92-7/8% copper. Melts at 1310⁰ F and fluid at 1485⁰F. 1 Lb. Pkg. of 20" pieces.

3165 1/16" Round **3167** 3/32" Round

Stay-Clean Aluminum Soldering Flux



Used with Stay-Brite solder it will solder aluminum to aluminum or to copper, brass or stainless steel, or galvanized iron. Used for low temperature solders.

3056 4 oz. dispenser **3057** 16 oz. plastic bottle **3058** plastic gal.

Stay-Clean Aluminum Soldering Flux

Used with Stay-Brite solder it will solder aluminum to aluminum or to copper brass, stainless steel, or galvanized steel.

3059 4 oz. dispenser

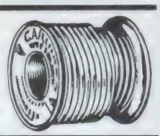
Low Heat-Seal Stick



Epoxy That Seals At Low Heat

Epoxy that seals at low heat 250°F. Seals leaks for R-12 and 22, ammonia, sulphur dioxide, air, water, steam, gas, and oil.
29217

50/50 Solid Wire Solder



Smooth flowing and melts to liquid point at 418⁰F.
3102 1 lb. Spool **3139** 5 lb. Spool

95/5 Solid Wire Solder

Melts to liquid point of 450⁰ F. Wire 1/8".
3100 1 lb. Spool **3138** 5 lb. Spool

Self Fluxing Solders

40/60 Acid Core
Wire 1/8" for soldering sheet metal and general repair work. Melts to liquid about 455⁰F.

3106 1 Lb. **3107** 5 Lb.

40/60 Rosin Core
Wire solder 1/16" diam. Melts to liquid about 455⁰F.
3109 1 Lb.

60/40 Rosin Core Solder
Wire solder 1/16" diam. Melts to liquid about 375⁰F.

3104 1 Lb. **3105** 5 Lb.

Stay-Brite Silver Bearing Solder



Low melting point and flow point of 400⁰F. avoids copper annealing distortion and the formation of oxide inside the tube. Used with Stay-Clean flux it will solder copper, brass, iron, and stainless steel to itself or to each other. Used with Stay-Clean aluminum flux it will solder aluminum to itself or to other materials. 1 Lb. Spool
3060 1/8" diam. **3061** 1/16" diam.

Stay-Brite No. 8 Silver Bearing Solder

3064 1/8" diam. 1 Lb. Spool

LaCo Flux-Stik



3229

La-Co Silver Solder Flux



For all silver soldering from 1125⁰ to 1700⁰ F.

29206 6 oz. plastic jar

Stay-Silv Brazing Flux



For use with silver solders and most brazing alloys for brazing stainless steel, iron, brass and copper to themselves or to each other. It should not be used on aluminum. Chemically active from 800⁰F to 1700⁰F.
3047 7 oz. Applicator Dispenser **3049** 1 Lb. Jar

Nokorode Solder Paste



Will flux all metals except aluminum.

3182 2 Oz. Can **3183** 1 Lb. Can

La-Co Regular Flux Non-Acid Soldering Paste



Use regular flux with 40/60, 50/50, 60/40, or 95/5 wire or bar solder, or any other standard soft solder.
29242 4 oz. **29243** 1 lb.

La-Co Flux and Solder



Will solder copper, brass, terne plate, galvanized iron and other metals.

29218 1/2 Pound **29219** 1 Pound

Handy Flux By Handy & Harmon



Ideal for 99% of the brazing jobs that use low temperature silver brazing alloy solders for brazing ferrous and non-ferrous metals and their alloys. It melts and dissolves oxides at 600⁰F. and becomes molten and fully active at 1100⁰ to 1600⁰F.
3254 1/2 Lb. Jar **3255** 1 Lb. Jar

Oxweld Brazo Flux



Used for bronze welding steel, cast iron, malleable iron, and for fusion welding brass, bronze, copper, and copper alloys.
22887

La-Co TU-5 Aluminum Flux And Aluminum Solder For Refrigeration



Repairs leaks in aluminum evaporators,or joins aluminum to copper or aluminum. TU-5 Flux.
29211 4 Oz. **29212** 1 Lb.

La-Co Aluminum Wire Solder No. 55

For use with TU-5 flux.
29213

Aluminum Solder No. 60

29246

La-Co Aluminum Flux Soldering Paste



Can make joints with 50/50, 60/40, 95/5 or other soft solder at temperatures well below the melting range of aluminum. Use for copper, permitting the aluminum to copper assemblies.
29240 4 oz. **29241** 1 lb.

La-Co Aluminum Soldering Kit



Kit includes 1 oz. of Aluminum Flux Paste and 1/2 oz. of La-Co #60 wire Solder.
29245

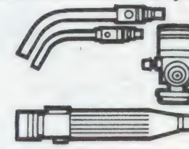
Brushes for Solder Flux



Handy brushes for applying solder flux to work.

No.	Wide	Long
3152	3/8"	5"

Turbo Torch Air Acetylene Kit



All kits have pressure regulator, handle and hose.

No.	Mfg.	Also Includes
14366	X3	No. 14370 and 14373 Burners
14367	X4	No. 14371 and 14374 Burners
14312	X5	No. 14371 and Heat Shield

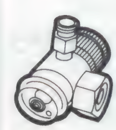
Turbo Torch Air Acetylene Burner Tips



Use with air acetylene. Have a quick disconnect fitting that fits the No. G-2 handle.

No.	Mfg.	Size Flame	Acetylene Use Per Hr.
14370	A3	1/4"	3.4 Cu. Ft.
14371	A5	5/16"	5.4 Cu. Ft.
14372	A8	3/8"	8 Cu. Ft.
14373	A11	7/16"	10.7 Cu. Ft.
14374	A14	1/2"	14 Cu. Ft.
14375	A32	3/4"	32 Cu. Ft.
14387	SA Snappy Adapter screws into any standard handle adapting it to accept Turbo Torch Tip		

Turbo Torch Acetylene Pressure Regulator



This pressure regulator is preset and locked at 14 lbs. One side has the standard POL connection to fit a "B" tank and the other the standard 9/16-18 LH thread to fit the hose connection. AR-2.

14379 Acetylene Pressure Regulator
14313 AR-4 For MC tank—LH3/8"—24 Thd.

Turbo Torch Air Acetylene Handle



Turbo Torch has quick disconnect to take the interchangeable burner tips. Each handle has a brass shut off valve with standard connection of 9/16-18 LH thread.
14377

TurboTorch Acetylene Hose

9/16-18 LH thread. 12 ft. long.
14364

Turbo Hand Torch



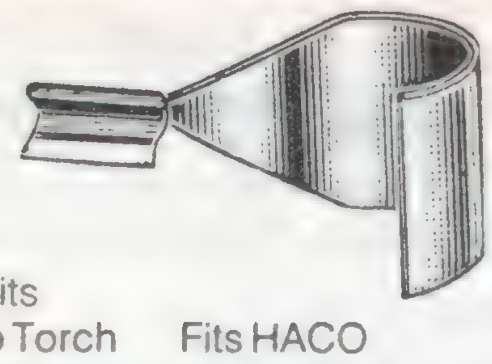
Using Mapp gas will silver solder up to 21½" copper tube. The STK-5 kit includes a 16 oz. Mapp gas regulator and large tip.

14409 Complete Torch Kit Including Regulator and large tip.

No.	Torch	Tip	Approx. Use
14391	ST-1	Small	4 Hrs.
14394	MT-1	Replacement Mapp Tank	

SEE SEPARATE PRICE LIST

Turbo Torch Amplifier Shields



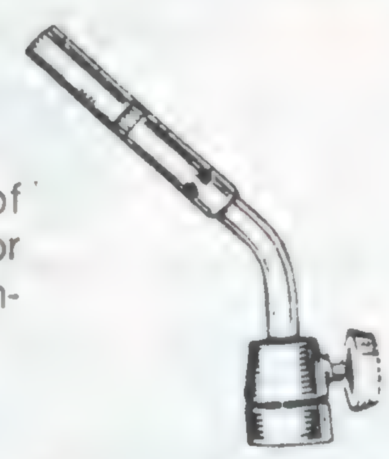
Cuts soldering time by 40%.

No.	Fuel	Fits Turbo Torch Burner No.	Fits HACO Burner No.
14351	Propane	T-3	14323
14352	Propane	T-4	14324
14357	Acetylene	A3	14370
14358	Acetylene	A5	14371
14351	Acetylene	A8	14372

Bernz-O-Matic Propane Jet Torch

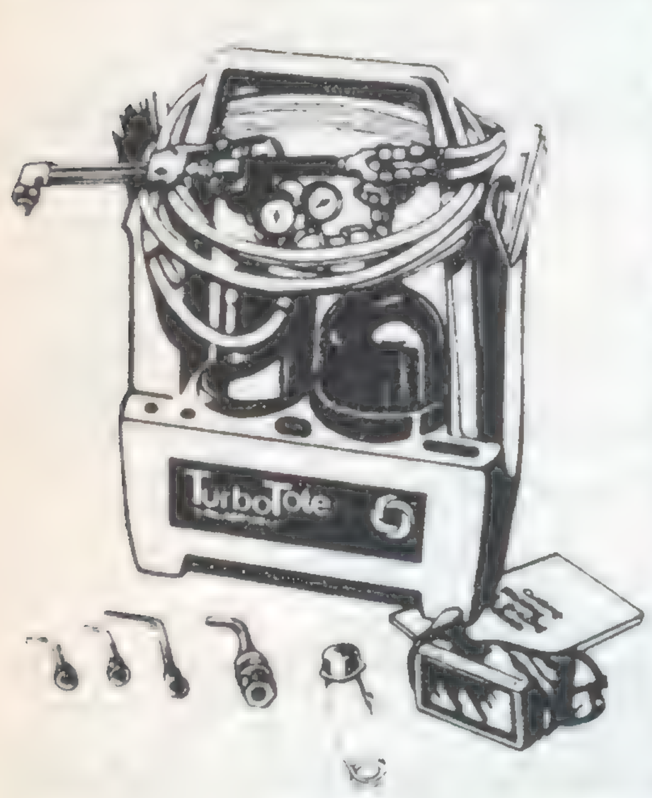


Used with all makes of standard disposable LP or propane fuel tanks. Complete torch.



No.	Description
22009	Pencil Burner Without Fuel Tank
22010	Utility Burner Without Fuel Tank
22000	Propane Fuel Tank
22011	Snap On Soldering Tip
22012	Snap On Flame Spreader
22017	Orifice Burner Body For Pencil Burner
22014	Orifice Burner Body For Utility Burner

Turbotote Kit



For fuel it uses an "MC" acetylene or the one pound "MAPP" tank with the "R" oxygen tank. Kit includes: handle, cutting attachment, three welding nozzles, one cutting tip, oxygen regulator, acetylene regulator, 12-1/2 ft. of twin hose, spark lighter, protective eye goggles, instruction book and carrying case. The acetylene and oxygen cylinder are not included, must be ordered separately.

No.	Model	Description
14386	110-01	Turbotote Kit

Prest-O-Lite Gas and Oxygen



Filled Gas Tanks

No.	Type	Rated	Long	Diam.
1785	MC	10 cu. ft.	13½"	4"
1787	B	40 cu. ft.	20"	6"
12727	"R" 20 cu. ft. Oxygen Tank (Full)			

Prest-O-Lite Gas Tank Exchange Empty Gas Tanks Exchanged For Full Tank

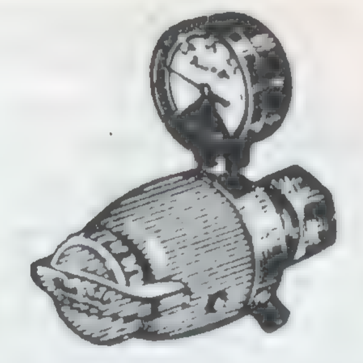
No.	Prest-O-Lite
1781	MC
1783	B
12726	R-oxygen

Sure Fire Self-Igniting Torch



No.
T400
T500

Prest-O-Lite Pressure Regulators



Forged brass acetylene pressure regulator delivers the gas at a uniform working pressure adjustable from 1 to 13 lbs. Connects to a MC or B tank and has left hand male thread for 3/16" size A hose.

No.	Tank	Prestolite
12662	B	04x36
12663	MC	.04x37

Adaptor to Change Regulator Connections

1790	For B Tank Regulator to MC Tank
12845	For MC Tank Regulator to B Tank

Tank Pressure Gauge Only

12678 Prest-O-Lite No. 627Y19.

Replacement Metal Knob For Regulator

12631 Metal Knob Replacement

Prest-O-Lite Acetylene Regulator Renewal Kit

Includes filter screw, seat and stem, spring, ring diaphragm and Allen wrench to renew R411, R413, and R415 regulators.

12623 Regulator Renewal Kit Complete

Torch Handle With Valve



Has thread connections for 3/16" size A fitted hose.

No.	Prest-O-Lite	For
12633	02x93	3/16" Size "A" Fitted Hose
12619	Replacement "O" Ring for ⅜" ID, 21/32" OD	
12742	Replacement Needle-Shut-Off Valve	

Prest O-Lite Torch Stem and Mixer



Interchangeable torch stems fit bakelite handles.

No.	Type Soldering	Prest-O-Lite
12798	Fine	638948
1777	Medium	10x24
1778	Heavy	10x25
1758	Extra Heavy	10x26
1776	Light	10x23

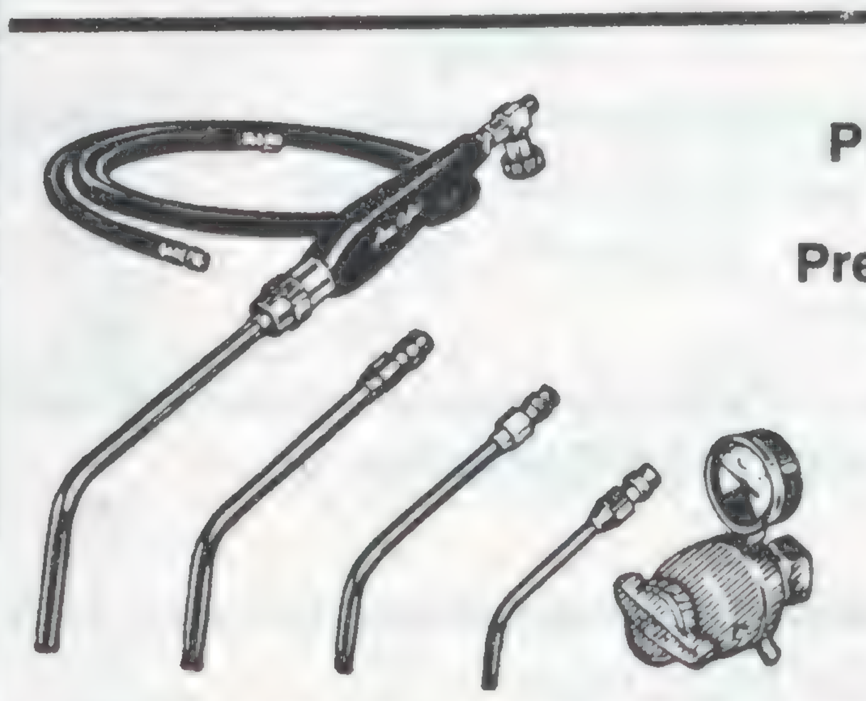
Delivery Pressure Gauge



For special application replace the pipe plug in the pressure regulator with this pressure guage to show the working pressure in pounds.

12664 627Y15

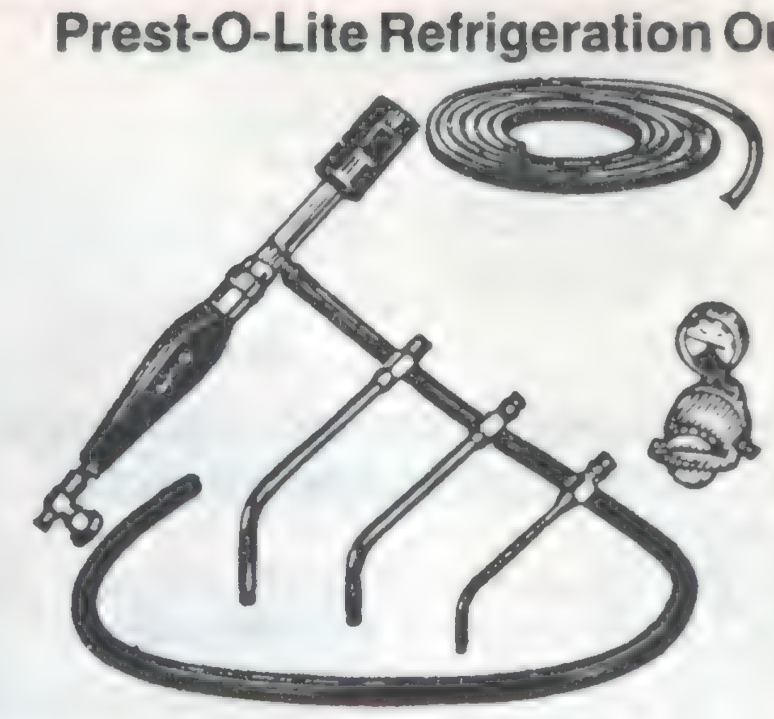
Precision 4-in-1 Prest-O-Lite Outfit



Vinylite carrying case with four flame ranges including extra fine, light, medium, and heavy torches. Supplied with No. 12633 torch handle with regulating valve and a pressure regulator for B or MC tank complete the kit. Has 6 ft. of 3/16" "A" fitted hose.

No.	Regulator For
12608	B Tank 30x63
12609	MC Tank 30x64

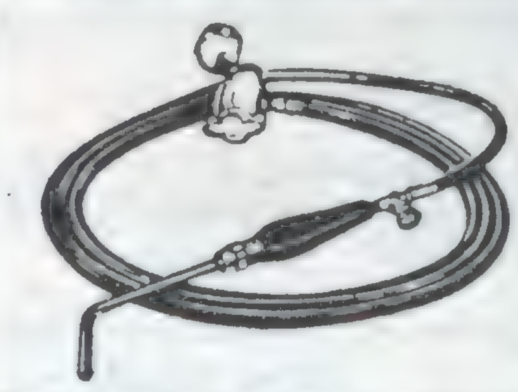
Prest-O-Lite Refrigeration Outfit



This precision refrigeration outfit has a valve on the control handle, 3 interchangeable torch stems, fine, light, and medium and No. 12635 leak detector stem. An adjustable pressure regulator for MC or B tanks giving accurate uniform flame. Is supplied with a pressure gauge to show contents left in tank. Complete with 3 ft. suction hose for leak detector, and 12-1/2 ft. 3/16" size "A" fitted hose.

No.	Complete Outfit With Regulator
12604	For B Tanks 30x66
12605	For MC Tanks 30x67

Prest-O-Lite General Purpose Outfit



The general purpose outfit is a basic outfit with a light torch, the torch handle with valve, a pressure regulator for B tank, with a pressure gauge that shows gas left in tank, and 12-1/2 ft. of 3/16" "A" fitted hose. With handle solder joints up to 1/2" diameter.

No.	Complete for
12600	B Tank 30x37
12601	MC Tank 30x38

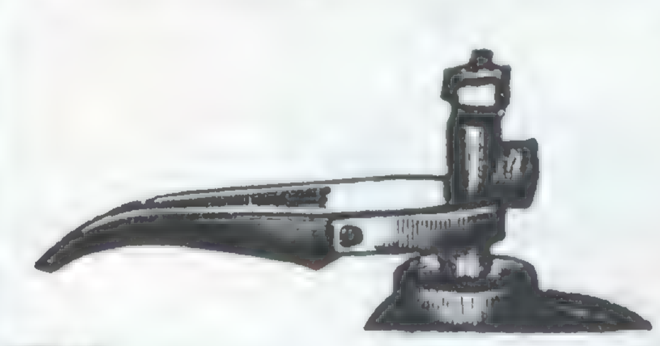
Prest-O-Lite MC Tank Handle



Wood handle with metal straps makes it easy to carry MC tank.

1773 Tank Handle A3321

Prest-O-Lite B Tank Handle



The handle fits on the B tank valve, and snaps on or off easily and quickly.

12849

Propane Disposable Fuel Tank



I.C.C. approved for non-refillable use with built in pressure relief valve.

22000

Halide Gas Leak Detector In Metal Case

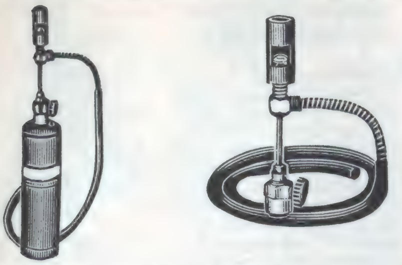


Incl. leak detector assembly, propane fuel tank.

22001

SEE SEPARATE PRICE LIST

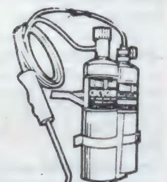
Halide Leak Detector With Propane Tank



Used with all makes of standard LP of Propane fuel tanks.

No.	Description
22002	Halide Leak Detector Complete
22003	Halide Leak Detector Assembly Only
22006	Orifice Body
22004	Complete Reaction Plate

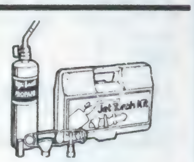
Bernz-O-Matic Oxygen Propane Torch



Kit incl. both oxygen and propane disposable cylinders, simple burner head with hand grip on 4-1/2" ft. double hose. Carrying stand, spark lighter and welding rods are incl.

No.	Bernz-O-Matic	Torch
22023	OX25000	Welding-Brazing
22021	0X9	Oxygen Tank

Bernz-O-Matic Complete Propane Torch Kit in Plastic Case



No.	Description
22015	Propane Torch Kit

Prest-O-Lite Halide Gas Leak Detectors



A



B

These gas leak detectors connect to the Prest-O-Lite interchangeable torch handles. Rubber hose slips on the 3/16" inlet tube and is used to pinpoint the leak of any chlorinated refrigerants.

No.	Fig.	Description
12635	A	Complete
12651	B	Complete
12637		Reaction Plate Only For 12635
12654		Ceramic Insulating Sleeve For 12635
12653		Reaction Plate Only For 12651
12654		Ceramic Insulating Sleeve For 12651
1765		6 Ft. Long 1/4" Hose For Above

Reaction Plates For Prest-O-Lite Gas Leak Detectors



C

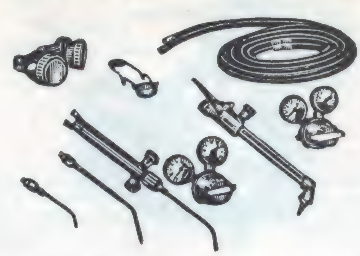


E

Reaction Plates for Prest-O-Lite gas leak detectors. No. 7904 and 12637 have copper insert and No. 12653 has special alloy reaction plate.

No.	Fig.	For	Prest-O-Lite
12637	C	12635	60Y40
7904	E	7902	07R75

Purox W-105 Welding and Cutting Outfit

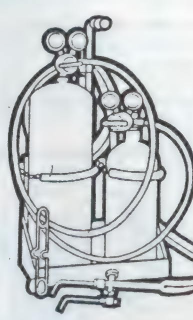


This lightweight basic welding and cutting outfit has a welding range from 1/32" to 3/8" and cutting range from 1/2" to 2". With additional welding heads you can weld from 32 gauge to 3/8" and with additional cutting nozzles from 1/16" to 2". Oxygen regulator fits Prest-O-Lite WQ, WC, WW, WS, and WK welding cylinder. With 25 ft. of twin hose.

12796 Complete Kit W-1:5

No.	Description
12728	Purox W200 Welding Torcvh
12769	No. 4 Welding Head 06L48
12770	No. 15 Welding Head 06L52
12771	No. 30 Welding Head
12610	CW 200 Series 2 for No. 4202 Nozzle Cutting Attachment Without Cutting Nozzle 05L20
12612	No. 4 Cutting Nozzle to 2" Gauge
12758	25 Ft. 3/16" Double Hose With A Fitting
12730	R4 12 Single Stage Oxygen Reguator
12772	RA13 Single Stage Acetylene Regulator Used With Welding Cylinder
22863	No. 21N Goggles With AA Green Lens
12938	Friction Lighter
12729	No. 6 Welding Head
12611	No. 3 Cutting Nozzle to 1/8" Gauge
12613	No. 5 Cutting Nozzle to 3/8" Guage
12732	12-1/2 Ft. 3/16" Twin Hose With a Fitting

PREST-O-LITE Welding and Brazing Outfit



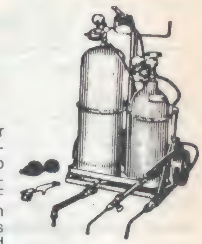
No.	Mfg. No.	Description
12645	998 136	Kits without Oxygen or Acetylene Cylinders but with Cylinder Stand for B tank
12646	998 137	Kits without Oxygen or Acetylene Cylinders but with Cylinder Stand for MC Tank
No. 12645 Kit Includes the following parts:		
12728	03L25	W200 Purox Welding Torch
12769	06L48	No. 4 Welding Head
12647	06L50	No. 9 Welding Head
12649	05X01	Acetylene Regulator for B Tanks
12938	190F34	Friction Lighter
12669	10F69	Goggles
12676	152Z37	Cylinder Carrying Stand
No. 12646 includes all of the above but has Acetylene Regulator for MC Tank		
12660	05X02	Acetylene Regulator for MC Tank
12610	CW-200	Cutting Attachements for Above Kits
12612	No. 4	Cutting Nozzle for above Kits

Shurlite Torch Lighter



No.	Description
12938	Shurlite Torch Lights
12939	Renewable Tip

Prest-O-Lite Oxygen-Acetylene Portable Welding Outfit



This is a complete portable outfit for oxy-acetylene welding and soldering with a steel carrying truck to take with you on the job. Oxy-acetylene torch procuces 6000°F flame. Truck holds 20 cu. ft. oxygen and "MC" or "B" acetylene tanks with compartment for tools and accessories.

No.	Description
12602	Kit Without Oxygen or Acetylene Tanks With Regulator For MC Acetylene Tanks
12727	"R" 20 Cu. Ft. Oxygen Tank (Full)
12603	Kit Without Oxygen or Acetylene Tanks With Regulator For B Acetylene Tanks
1785	"MC" 10 Cu. Ft. Acetylene
1787	"B" 40 Cu. Ft. Acetylene
12845	Adapter For "MC" Reg. to Fit "B" Tank
No. 12602 Kit Includes the Following Parts	
12728	Purox W-200 Welding Torch
12729	No. 6 Welding Head
12730	R-412 Oxygen Regulator
12731	R2233 Acetylene Regulator For "MC" Tank
12635	Leak Detector
12672	12-1/2 Ft. 3/16" Acetylene Hose
12732	12-1/2 Ft. 3/16" Twin Hose
22863	No. 21-N Goggles
12938	Friction Lighter
12735	Portable Carrying Case

No. 12603 Kit Includes The Following Parts

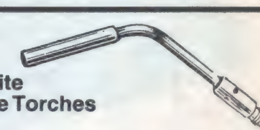
All Parts included with the No. 12602 Kit, but with Regulator for B Tank Instead of No. 12731.

No.	Description
12749	R2260 Acetylene Regulator For B Tanks
Cutting Attachments Not Included in Kit	
12610	CW200 Series 2 For No. 4201 Nozzle Cutting Attachment Without Nozzle
12611	No. 3 Cutting Nozzle to 1/4" Steel
12612	No. 4 Cutting Nozzle to 3/4" Steel
12613	No. 5 Cutting Nozzle to 1-1/2" Steel
12745	Cylinder Gauge 3000 Lbs. Press.
12746	Delivery Gauge 100 Lbs. Press.
12695	Acetylene Check Valve for "A" size hose
12696	Oxygen Check Valve for "A" size hose

Presto-O-Lite Acetylene With Prest-O-Lite Swirljet and Purox Equipment

Acetylene with air in standard Prest-O-Lite equipment burns at about 4000°F. Acetylene with air in Swirljet equipment burns at about 4200°F. Swirljet flame is much smaller.

Prest-O-Lite Swirljet Acetylene Torches



Propane Torches all fit No. 12633 torch handle. They deliver a concentrated flame nearly 3500°F.

No.	Swirljet	Soldering Capacity OD Copper Tube Size: For Soft	For Solder
12614	638933	1-1/2" OD	1-1/8" OD
12615	638934	2-1/2" OD	1-1/2" OD
12616	638935	Over 2-1/2" OD	4" OD
12633	02X93	Interchangeable Torch Handle With Valve	

Prest-O-Lite Swirljet Propane Torches



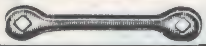
These torches are desgined for use with propane gas Prest-O-Lite torches and will fit No. 12633 Torch handle. They deliver a hot concentrate flame nearly 3500°F.

No.	Swirljet	Soldering Capacity OD Copper Tubing: For Soft	For Solder
12617	633919	1/2" OD	3/8" OD
12618	633920	2" OD	3/4" OD

SEE SEPARATE PRICE LIST

3/16" Tank Wrench

1791



Sure Fir Self Igniting Torch

Four use with Mapp or propane, ignites by pressing ON button. Will light more than 30,000 times. Burns hotter than other propane torches, over 3500°F. Instant ON and OFF to save fuel. Safer to use because burn tip stays cool in normal use.

22093	Mapp Tip	**22095**	12 ft. hose incl. tank adapter
22094	Propane Tip	**22096**	Mapp tip and orifice

Heavy Duty Torch

Self igniting torch will soft solder copper pipe up to 4" and silver solder and braze copper pipe up to 1" (1-1/4" with Mapp). Ignites and burns upside down. Equipped with built in pressure regulator.

22097	Torch	**22098**	Mapp tip and orifice

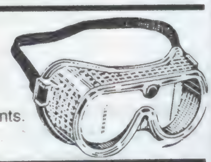
Oxweld Goggles

Gives protection for all welding and cutting operations.



22863 Regular Oxweld Goggles
22864 Coverall goggles for use over eyeglasses

Flexible Mask Goggle



Meets ANSI Z87. 1-1968 requirements.
61320

Prest-O-Lite 3/16" Size "A" Hose

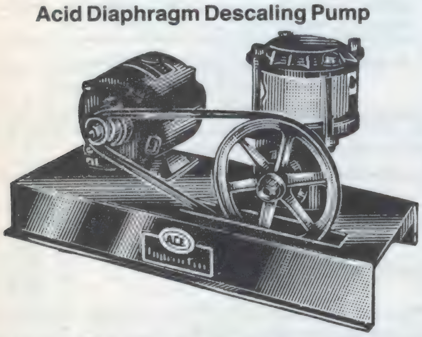
With Fittings



Rubber fabric reinforced 3/16" hose has type "A" left hand thread fittings on each end.

12671	6 Foot
12672	12-1/2 Foot

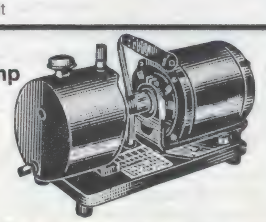
Acid Diaphragm Descaling Pump



Used for circulating refrigerant solvent when cleaning hermetic burnouts or used for descaling condensers. Pump is equipped with Valox thermoplastic polyester valve chamber which offers outstanding resistance to a wide range of chemicals and solvents. This pump comes complete with 1/3 HP 115 V 60 Hz. 1 phase motor, pulley and belt. Will pump over 100 ft. head.

No.	Description
71040N	Descaling Pump
71041	Repair Kit

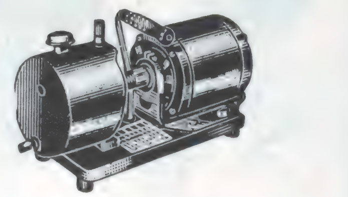
Thermal High Vacuum Pump Two Stage Direct Drive Pumps



These compact direct drive rotary vane high vacuum pumps will satisfy vacuum requirements of refrigeration engineers. They blank off at 20 microns. Two-stage with 1.6 CFM free air capacity. Has 3/8" x 1/4" flare inlet fittings. Oil capacity 16 oz. Rubber mounted 1750 RPM 1/3 HP Motor 115 V 60 Hz.

61734N

Thermal Vacuum Pump Two Stage Direct Drive



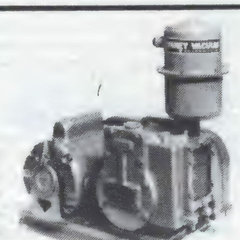
Free air capacity of 3.2 CFM. This rotary vane high vacuum pump will pull to a field vacuum of 20 microns. Has 3/8" x 1/4" flare inlet fittings and oil capacity is 16 oz. Rubber mounted with 1725 RPM 1/3 HP 115 V 60 Hz motor.
61736N

Two Stage 6.2 CFM Vacuum Pump

This pump has a free air capacity of 6.2 CFM field vacuum of 20 microns. Has 3/8" x 1/4" flare inlet fitting with oil capacity of 18 oz. Rubber mounted with inlet fittings, a 1725 RPM 1/2 HP capacitor start.

61737N
61780 Repair Kit

Kinney KC Rotary Piston High Vacuum Two Stage Pump

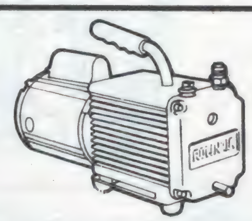


True two stage compound pumps. The pump will produce an ultimate pressure of 0.1 micron and has fast pumping speed and rapid recovery.

Complete with 115 V 60 Hz Motor V-Belt and Base

No.	Model	Oil Capacity	IPT Inlet	H.P.	RPM	Displacement
91080Y	KC2	0.9 Pints	¾"	1/4	755	2 cu. ft. min.
91084Y	KC3	0.9 Pints	¾"	1/3	1135	3 cu. ft. min.
91086Y	KC8	1⅓ Pints	1"	1/2	1000	8 cu. ft. min.

ROBINAIR Two Stage Vacuum Pump



Compact direct drive rotary vane high vacuum pump is used for dehydration, vacuum distillations, etc. Pump has 5.0 CFM. Will draw down to a field blankoff of 20 microns. Capacitor start 1/3 HP motor operates at 1725 RPM. Intake fitting 1/2" male flare.

No.	Description
49458	115/60/1
49459	110/220/50/1

CD 16 Sump Pump



Vertical discharge. Female 1-1/4" NPT discharge for quick installation. Will fit in 9-1/2 diam. on larger sump. 33-1/2" high 1/3 HP 115 V motor with cord.
29030N

Mighty Max Multi Purpose Rotary Roller Vane Pump



Small self priming pump with approx. 3/4" hose connection, powered by an electric drill. At 2,000 RPM's it will pump 1050 G.P.H., 17-1/2 G.P.M.
71030

Submersible 1/2 HP Sump Pump for Easy Drop-In Installation

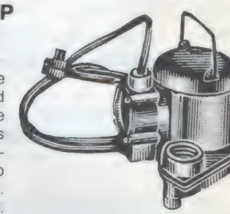


Pump equipped with dependable mercury float switch. Is designed to fit in small sump pits, float requires only 7" clearance for travel. Completely submersible pump is corrosion resistant, withstands common household chemicals. Pump has discharge with check valve. Flexible 6" hose connection at top with two clamps.

Capacity GPH	4200	3600	2600	1300	700	0 (Shut Off)
Head (Feet)	5	10	15	20	22	24

29181

Submersible 1/4 HP Sump Pump



Pump has a high volume pumping capacity and comes with pressure actuator switch. Requires 1-1/4" female NPT discharge. Unit will pump 2750 GPH at 5 ft. head. 1750 GPH at 10 ft. head.
71022

Submersible Drain Pump

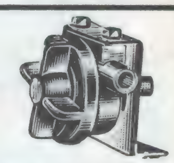


Lightweight, portable, corrosion resistant, 1/6 HP, 1250 GPH. 120 V, 60 Hz. Outlet 1" IPT includes garden hose adapters.
71031

Remote Automatic Pump Switch

Bolts onto No. 70131 Pump or may be mounted separately.
71032

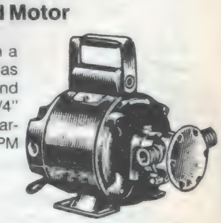
Corrosion Resistant Plastic Pump



Self priming plastic molded pump with neoprene impellers and stainless steel type 316, or Hastelloy type C shafts. Has 3/8" extended ports for hose connections. Corrosion resistant to many chemicals with all parts replaceable. With mounting bracket.

No.	Shaft
27117	Plastic Pump
27119	Extra Neoprene Impeller Only

Jabsco Portable Self Priming Pump And Motor



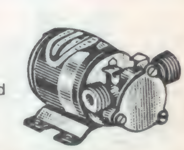
Has a Jabsco pump mounted on a 1/3 HP capacitor motor. Pump has the standard neoprene impeller and a bronze body. The unit has the 3/4" male thread to fit the standard garden hose connections. 1750 RPM 115 V 60 Hz. Model 11810.

27123 Pump and 1/3 HP Motor
27149 Pump Only For Above

Replacement Kit With Impeller, Gasket, Seal and Screw

27135 Replacement Jabsco Model 11810 Pump

Self Priming Water Pump

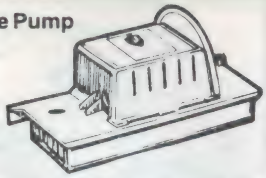


A small pump with 3/4" male thread hose connection complete.

No.	Description
27130	12 V DC
27100	110 V AC
27158	Replacement Kit with Impeller, Gasket, Packing and Nut for 27130
27204	Replacement Kit with Impeller, Gasket, Packing and Nut for 27100

SEE SEPARATE PRICE LIST

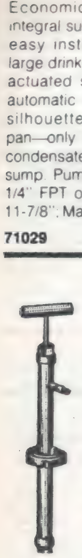
Lo-Boy Condensate Pump



Economical model with integral sump. Low profile easy installation. 13 ft. large drink per cycle. Float actuated switch for fully automatic operation. Low silhouette of the sump pan—only 1-3/16" high permits placing the unit next to the condensate drain pipe so that water can drain directly into the sump. Pump is furnished with 20 ft. 1/4" vinyl tubing. 1" inlet; 1/4" FPT outlet; 1/75 HP; 48 Watts; .9 Amps; 4-1/2" x 5" x 11-7/8"; Max PSI 5.7

71029

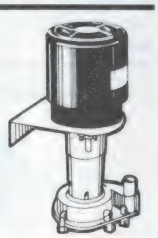
Charg-Oil High Pressure Pump



This piston type high pressure pump will operate at pressures up to 250 PSI. It will charge refrigerator compressors with oil without pumping the compressor down, or allowing air, dirt, or moisture to enter. Cap has 3 interchangeable ring thread adapters to fit Ansul, Suniso and Texaco standard gallon oil can. Has 1/4" male SAE fitting connection.

61711	Charg-Oil Pump
61721	Adapter Only To Use Old Pumps on New Suniso 3G Oil Cans
61712	Repair Kit Including Valve Balls, "O" Rings, Springs, Valve Seats and Cap Gasket
61713	Air Bleed Valve

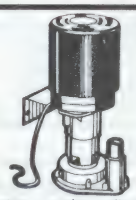
Replacement Pump For Carrier and York Ice Machine



Has 44" two conductor cord without plug. 9" high 4-1/2" diameter.

No.	HP	Voltage
71007	1/30	110 V 60 Hz

Replacement Pump For Scotsman Ice Machines



Low cost replacement pump that features various discharge sizes to match most existing OEM ice machine pumps.

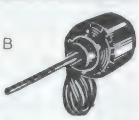
No.	Voltage
71011	115/60/1

Whirlpool Ice Maker Pump Motor

A



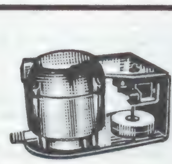
B



Use to replace motors on ice makers made by Whirlpool and Frigidaire. 115 V, 60 Hz, 1 phase with overload protection.

No.	Models
97147	to 1970
97148	after late 1970

"In-Pan" Automatic Condensate Pump



Used for In-Pan mounting for refrigeration and air conditioning units having a built in sump. A float operated mercury switch will operate below the water level. Completely submersible with motor sealed in oil. Compact size 4-1/4" x 4-7/8" x 6" with 1/4" MIPT outlet.

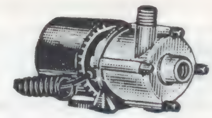
Cap. Gal. Per Hour At Heads Of

No.	3 Ft.	5 Ft.	7 Ft.	Volts
71005	131 Gallons	87 Gallons	15 Gallons	115V 60 C

Tank Kit For Condensation Water

71016 Kit including 8-1/4"x4-1/2"x5-1/4" High Tank, Check Valve Elbow, Length of 1/4" Copper Tube and 20 Ft. Plastic Hose

The Pump Without a Seal

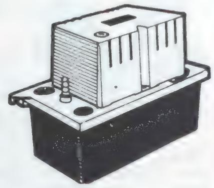


The pump is completely enclosed in Stabilized Polypropylene which is remarkably inert to most acids, alkalies, brine, and solvents. Ideal for circulating strong cleaners through coils and condensers. 4" wide 115V 60 C motor; inlet 1/2" FIPT outlet 1/2" MIPT.

Cap. Gal. Per Hour At Head Of

No.	3 Ft.	6 Ft.	9 Ft.	16 Ft.	22 Ft.
71013	275	210	125		
71014	515	450	375	75	
71015	660	600	545	350	125

Automatic Condensate Pumps



Has float operated control switch and second float with low voltage switch that may be wired to a control, a compressor or warning signal. 1/4" MIPT outlet. 10 ft. shut off. Capacity at 5 ft. head 42 gal. per hour, at 9 ft. head 27 gal. per hour.

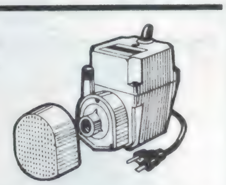
Cap. Gal. Per Hour Of

No.	Volt	5 Ft.	9 Ft.
71001	115V 60C	**42**	**27**
71002	230V 60C	**42**	**27**

Same as above but with 20-1/2 ft. shut off.

No.	Volt	5 Ft.	9 Ft.
71003	115V 60C	**127**	**110**
71004	230V 60C	**127**	**110**

Condensate Pump



Pump may be totally submerged or if standing in liquid will pick up within 1/2". Pumps will not operate dry and must be mounted so that they are flooded.

Cap. Gal Per Hour at Head of

No.	Shut Off Head	Volts	4 ft.	6 ft.	8 ft.	10 ft.
70980	11 Ft.	110	115	72	28	
70983	Basket Screen for No. 70980		286	240	200	157

With Female Iron Pipe Thread Intake

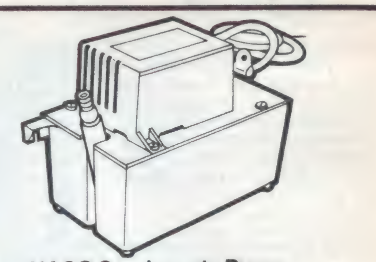
No.	Fe.IPT	Shut Off Head	Volts	4'	6'	8'	10'
70984	3/8"	11 ft.	110	115	72	28	
70985	1/2"	17-1/2 ft.	110	286	240	200	157
70991	3/8"	11 ft.	230	115	72	28	

Vacuum Pump Oil



Low vapor pressure mineral oil is especially formulated for use in deep vacuum mechanical pumps. The quality of this oil gives the extra edge in pumping speed when your pump is working under deep vacuum.

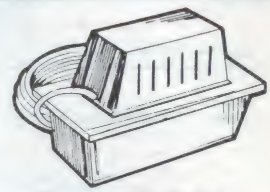
22730 Six Pack of One Shot Bottles



HACO Condensate Pump

Inlet: 1-3/8" ID Outlet: 1/4" NPT with fluted fitting for 3/8" ID vinyl tubing. 115V

No.	4'	6'	8'	10'	12'	13'
71027	87	80	70	58	44	Shut Off



Condensate Pump

Plastic pump will hold over 2 qts. water. Comes complete with 20 ft. of 1/4" vinyl tubing, factory installed. 1" dia. inlet. 1/70 HP. 115V motor 60Hz.

Capacities in Gallons per Hour at Heads Shown

No.	1 Ft.	5 Ft.	10 Ft.	Voltage
71021	58	52	40 GPH	115/60/1

Automatic Condensate Pumps

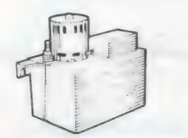


Fig. 1

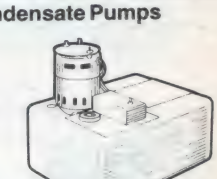


Fig. 2

Pumps have reservoirs made of high impact ABS plastic. Features snap-action switches. 3000 RPM Motor with S.S. shaft and thermal overload protection. Inlet: 1-3/8". ID vinyl tubing. Auxilliary safety switch.

No.	Fig.	Volts	Amps
29034	1	115	1.1

Condensate Pump with Extra Large 2-Gallon Tank

For applications involving high surges of water, such as ice machines during flushing periods.

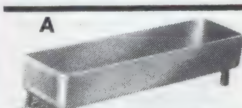
No.	Fig.	Volts	Amps
29035	2	115	3.1
29036	2	230	1.5

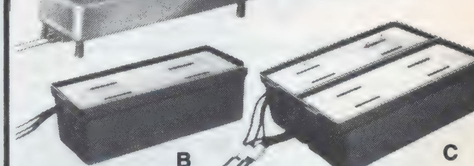
Gallons Per Hour At:

No.	2'	6'	12'	18'	20'	22'
29034	135	120	85	50	20	Shut-Off
29035	720	660	492	312	252	—
29036	720	660	492	312	252	—

Condensation Drain Pans

A





B C

Heating element in bottom of drain pan which works to evaporate condensation water. These models will evaporate from 8 oz. (60510) to 13 oz. (60598) of water per hour.

No.	Fig	Dimensions	Volts	Oz. Cap
60510	A	10"x4"x2-7/8"	110/120	38
60598	B	11-1/2"x4"x3-1/4"	120	50
60511		Wall Mounting Bracket		
60513		Set of 2 Slides for Drawer Mounting		

Similar to Above But Will Evaporate 25 oz. Per Hour

No.	Fig	Dimensions	Volts	Oz. Cap
60599	C	11-1/2"x8"x3-1/4"	120	100

SEE SEPARATE PRICE LIST

Vacuum Pump Oil



Oil in a vacuum pump must be kept clean to avoid trouble and should be changed when it becomes a little contaminated even after a short run. With clean oil pump will give a better vacuum and pump down faster.

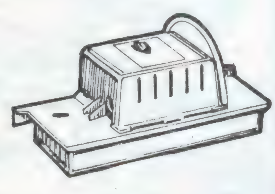
29079

BesTest Vacuum Pump Oil



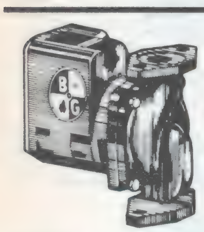
22273 1 gal. throw away container.

Lo-Boy Condensate Pump



Economical model with integral sump. Low profile, easy installation. 13 ft. large drink per cycle. Float actuated switch for fully automatic operation. Low silhouette of the sump pan—only 1-3/16" high permits placing the unit next to the condensate drain pipe so that water can drain directly into the sump. Pump is furnished with 20 ft. 1/4" vinyl tubing. 1" inlet; 1/4" FPT outlet; 1/ 75 HP; 48 Watts; .9 Amps; 4-1/2" x 5" x 11-7/8"; Max PSI 5.7

71029



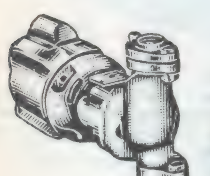
Bell & Gossett Iron Body Booster Pump

Little "Red"

Designed to circulate water in hydronic heating and cooling systems as well as solar applications. Repairable in the field. 1/20 HP, 115 V, 60C 1 phase motor operates at 2900 RPM. Oil lubricated with mechanical seal. Pump shown without flange, order seperately if needed.

No.	Model	
28230	LR20	Flange for LR20 Iron Body Pump

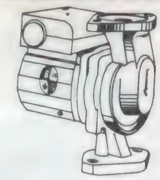
B & G Booster Circulation Pump



The B & G Booster circulating water pump is the universally used pump for hot water heating systems. They can be used for single or for multiple zone control heating. They recirculate the hot water rapidly to give uniform even heating. Also used to recirculate hot boiling water through indirect water heater for hot water supply. Have 1/12 H.P. 115V 60C. Single Phase motors that are quiet and vibrationless. A noise dampening spring coupler helps reduce vibration and a large oversized shaft and bearing are kept lubricated by wool oil wicking from a large oil reservoir. Flanged connections allow easy installation. Removing a few bolts separates the unit for complete servicing without breaking the pipe connections. Series 100.

No.	Flange
28189	FIPT
27918	1/2"x1/2" Replacement Flexible Coupling Series 100
28170	Motor Only B/G #111034-1/12 HP 115 Volt
28171	Bearing Assembly B/G #118844
28172	Seal Kit #7 B/G #118681
28173	Flange Gasket B/G #118368
28163	Bearing Assembly Brass B/G 18903
28164	Body Gasket B/G P04080
28166	Impeller B/G 189132
28168	Motor Mounts B/G 118223

Bell & Gossett System Lubricated Circulator Up Start



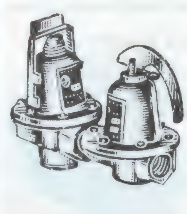
Up to 60% greater starting torque than competitive pumps. Four speed operation. For hydraulic, solar and portable water applications. Cast iron construction. Non-overloading thermally protected motor is 1/25 HP, 60C 115V single phase.

28188

Flanges sold separately. These will fit each of the Bell & Gossett pumps. Flanges are sold in pairs.

No.	Size	No.	Size
28190	3/4"	**28191**	1"
28192	1-1/4"	**28193**	1-3/4"

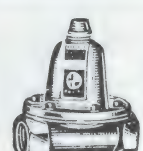
B & G Dual Relief And Reducing Valve



These combination of relief and reducing valves can be used on low pressure hydraulic heating and cooling systems. The reducing valve has an anti-siphon check valve, built in strainer and extra large diaphragm. Delivery is from 8 to 25 lbs. The relief valve is set at 30 lbs. PSI. Extra large diaphragm gives ample lifting power.

22101

B & G Reducing Valve



Has an iron body and is equipped with anti-siphon check valve, an extra large diaphragm and built in strainer. Delivery pressure factory set at 12 lbs. with readjustable range from 8 to 25 lbs.

No.	Size
22100	1/2" FIPT

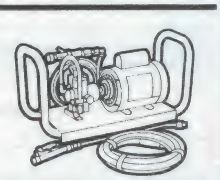
Poly Sprayer



Use on air conditioning cooling coils, air cooled condensers, finned heating coils. Made of high density polyethylene. Has a funnel top providing for easy pouring and has a 3-1/2 gal. capacity. Comes with 10" polypropylene pump, extension tube with adjustable nozzle and 5 ft. of vinyl hose.

64436

Jet Streamer Pressure Washer



Jet streamer pressure washers are used for commercial, industrial and contractors applications. Ideal for cleaning condenser and evaporator coils. Unit has brass fittings and double insulated on-off toggle switch. 15 amp rating with rubber boot to protect against moisture. 15-ft. pressure hose. 18" brass wand, solid brass 15^0 Vee Jet nozzle. Unit will accept a 24" extension wand and an additional 15' pressure hoses (optional). This model has a bronze "Y" strainer with a bypass injector for solvents. Trigger shut-off at wand. Unit delivers 500-550 PSI Pressure. Discharge rate: 2-GPH. has twin piston pump. Dimensions: 12" x 9-1/2" x 28" long. 3/4 H.P., 115V/60 Hz. Cap. start 1725 RPM fan cooled motor. Hose: 1/4" ID x 15' long. Weight 64 lbs.

60775	Accessories for 5000
60769	Replacement Pump
60776	Extra 15' Pressure Hose
60777	4-Casters
60778	24" Extension Wand
60779	3-Replacement Filters Monel Screen

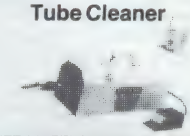
Jet Streamer Pressure Washers



For cleaning condensers and evaporator coils. All brass fittings, comes with toggle switch, 15 Amp rating with rubber bolt to protect against moisture. 15 ft. pressure hose. 18" brass wand. 16 Veejet nozzle. Accepts 24" extension wand and additional 15" lengths of pressure hose. Delivers 220 to 280 PSI pressure. Discharge rate: 1.5 GPM. Has rotary vane forged brass pump. Dimensions: 7" x 7" x 20" long. 1/3 HP Motor 115/60 Motor 1725 RPM. Hose 3/16" ID x 15" long.

60770	Accessories
60771	Replacement Pump
60772	Inline Filler
60773	Extra 15' Pressure hose
60774	24" Extension wand

Tube Cleaner



The Model 1500 "JET-MATE" features a 1/2 H.P. D.C. (constant-torque) motor, solid-state speed control from zero to 1800 RPM, water tight foot switch and a solenoid to shut off water flow when motor is not running. Compact, portable design. Includes 15-ft. flexible shaft, 1/2-inch cutting/buffing tool. Quick-Connect coupling removes shaft from unit. 115V AC, 60 Hz.

60792

Heavy-Duty High-Pressure Washer



Model 9000 is a 1000 PSI Pressure Washer, but featuring a 1-1/2 H.P. motor, a heavier pump and a nozzle which adjusts for a spray pattern from 80^0 (flat) to a solid stream at 0^0 by simply twisting the cap on the nozzle. Wand has provision for holding with both hands. The unit includes four ball-bearing casters as standard equipment as well as a 35 ft. long electrical cord.

60793

Virginia No. 10 Degreasing Solvent

Removes oil, grease and grease-bound dirt from machined parts, motor armatures, coils, switches, breakers and electronic components. Safe for most electrical insulation coverings.

60693 14 oz. Aerosol Spray

Virginia Acti-Brite Concentrate

Foaming coil cleaner and brightener removes deposits from air-cooled condensers and coils. Expanding foam pushes contamination out of condenser and is easily rinsed away with water. It should be applied with a low pressure, acid resistant sprayer.

60667 1 Gal. **60694** 5-Gal..

Virginia Acti-Klean Concentrate

Foaming coil cleaner and brightener cleans and treats air conditioning systems. Fast acting, non-toxic, deodorizing and easy to use. Removes dirt, oil, grease, lint, smoke film and slime accumulation in air conditioning systems. Self-rinsing, heavy duty evaporator coil cleaner. Acti-Klean is not effective unless there is air flow available. In cases where the air flow can't be left on during application, saturate coil completely with Acti-Klean and turn on air flow as soon as possible.

60668 1 Gal. **60695** 5-Gal.

Virginia Alki-Foam

Non-acid foaming coil cleaner and brightener. Removes contamination from heat transfer surfaces and increases air flow for increased electrical efficiency. The formula of an alkaline plus surfactants is especially effective where heavy grease accumulated from secondary sources have contaminated the air conditioning condensor. It will remove all other common contaminants. Treated surfaces should be thoroughly rinsed after application.

60669 1 Gal. **60696** 5-Gal.

SEE SEPARATE PRICE LIST



Coil Clean

For cleaning and degreasing air conditioning, heating and refrigeration equipment. Cleans evaporator coils, fin coils. Dilutes 1 to 4 for most uses. Authorized by the USDA for use in federally inspected meat and poultry plants.

22280	1 gal.	22290	30 gal.

Saf-T-Clean

Blend of selected solvents quickly removes grease, grime, oil and various heavy soils from all metal surfaces.

No.	Container Size
22281	1 gal.



Spray N'Wipe

Packaged in ready to use quarts. Specially formulated to dissolve the toughest oil, wax gum, soot, and other hard to remove soils. Authorized by the USDA for use in federally inspected meat and poultry plants.

22285	1 Quart	22286	Trigger Sprayer

Chlorothene Solvent

Chlorinated solvents. Developed for use in open pans for removing grime, grease, tar, and wax from motor and compressor parts. Has no flash point, no fire point, and excellent for cold cleaning. The best substitute for carbon tetrachloride.

19778 1 gallon

Metal Clean

Powerful metal cleaning system is fully inhibited and is safe for cleaning all ferrous and non-ferrous surfaces. It is non-flammable and contains no acids, naphtha or chlorinated solvents. Authorized by the USDA for the use in federally-inspected meat and poultry plants. Cannot ship PP.

22283	1 gal.	22293	5 gal.

"Gunk" Air Filter— Engine Cleaner and Aerosol Spray

"Gunk" engine cleaner in 16 oz. aerosol cans ready to use.

60670

"Gunk" General Purpose Cleaner

"Gunk" is ready to use, with squirt spout.

60672 1 qt. can

Dry Scale Remover

A dry sulfuamic acid compound with an inhibitor to protect metal surfaces. It destroys algae growth. In polyethylene lined square box.

60600 10 Lb. Drum

Liquid Scale Remover In Plastic Cubitainer With Inhibitor

A blend of dilute acid and special corrosion inhibitor. Used by diluting further with 15 gal. of water it will dissolve most calcium and magnesium deposits and kill most algae. The special inhibitor prevents serious damage to all metals, even on galvanizing. Cannot be shipped P.P.

22200	1 Gal.	22201	5 Gal.

Scale remover in 5 gallon container dissolves about 25% more scales.

22208 5 Gal.

Thermo-Trap Heat Absorbing Paste

Thermo-Trap is a heat absorbing paste to protect valves or controls from damage by heat when doing soldering, or welding or brazing near these heat sensitive parts.

64417 10 Oz. Plastic Tubes

No. 10 Degreasing Solvent

Can be used with comparative safety for degreasing wherever carbon tet was used. Non-corrosive, low in toxicity and fast drying. Flash point 165°F. Cannot ship P.P.

60619 1 Gallon Can

Liquid Ice Machine Cleaner

Liquid phosphoric acid cleaner has inhibitors that protect the highly polished surfaces in ice machines. Convenient and easy to use. Cannot ship P.P.

60609	8 oz.	60634	1 gallon container

Nu-Coil Water Coil Cleaner

A liquid cleaner containing an acid solution with an inhibitant that will dissolve the hard lime deposits in water coils without affecting iron, brass, or copper metal surfaces. Nu-coil should not be used on any porcelain surface but may be safely used in metal coils or tanks.

24210	Gallon	24261	15 gal.

Calclean Heavy Duty Liquid Detergent

A heavy duty liquid detergent to be used with; up to 10 parts water to clean condenser or evaporator coils, fans or metal fillers of greasy dust and dirt. Accepted for use in plants under the supervision of Meat Inspection Div. and Poultry Div. of the U.S. Dept. of Agriculture.

64400	Gallon	64401	5 Gallon

Doolin's Trouble Shooters Bible

Covers basic principles of electricity and mechanical and electrical troubleshooting. Has manufacturers technical chapters on Chrysler Airtemp, Copeland, Tecumseh, Automotive, Mark IV, Frigette, Bendix-Westinghouse and Minneapolis Honeywell. In hard cover.

26768

Doolin Manuals

A series of manuals that extend the usefulness of "Doolin's Trouble Shooters Bible," or will be useful as a reference for troubleshooting.

No.	Title
27461	Auto Air Conditioning
27462	Window Units
27463	Residential Heating
27464	Commercial Refrigeration

Appliance Controls Service Manual

Appliances service control manual for professional service technicians. Includes cold controls, defrost controls, heating, cooking thermostats from Ranco, manufacturer of quality controls. 350 pages. Cross references. Indexed. Troubleshooting and installation information. Product specifications for over 180 controls. Over 275 manufacturers cross references.

30790

Refrigeration Reference Notebook

A workshirt size book covering refrigerants, temperature pressure; operating temperatures; screws, bolts, drills; tube pipe fittings; load factors and calculations; humidity and humidification; electric motors, conduit, wire; components and brine; and conversion factors and tables. 160 pages with over 80 reference tables and illustrations.

26780

Air Conditioning Heating Reference Book

A workshirt size book covering design conditions and degree days; cooling loads; heating loads; humidity and humidification; ducts and blowers; piping and tubing; refrigerants; tables of drills, screws and gauges; and conversion tables. 176 pages.

26766

Tecumseh Hermetic Compressor Service Data Book

This book put out by Tecumseh Products Co. Explains serial plate information; lists compressor types and model numbers and outline drawings; shows compressor mountings; terminals; description of overloads and relays. The book shows resistance values of main and start windings, there are several pages of wiring diagrams and of test procedures and has useful and clear troubleshooting charts. Size 8-1/2"x11" with soft cover.

36170

Modern Refrigeration And Air Conditioning

By A.D. Althouse, C.H. Turnquist, A.F. Bracciano

1975 Edition

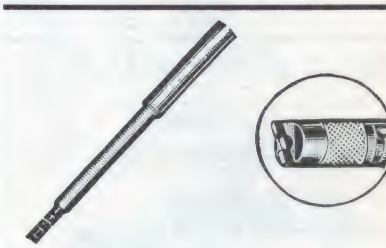
This excellent text book has 28 chapters and over 988 pages covering the practical application of refrigeration practice in all its branches. Starting with the fundamentals of refrigeration it also gives sound and thorough knowledge of air conditioning, heat pumps, automotive air conditioning and domestic and commercial refrigeration systems. Beginners, students and apprentices will find this book very helpful and experienced men will find it valuable as a reference and refresher study. The special section on fundamentals has illustrations in four colors. Following each chapter is a list of questions which will help you understand the text better if you carefully answer them. Size 7-3/4" by 10" with a hard cover. 1975 Edition.

27453

Laboratory Manual for 1975 Edition

The Laboratory Manual for this 1975 edition has outlines of exercises, or experiments or "jobs" that give you step by step instruction for practical application of the information in the textbook. The "Job Sheets" continually refer to the textbook for information and guidance. On the back of each job sheet there are test questions to help your understanding. Over 250 pages punched for a ring binder. Six sections cover suggested "job" experiments in Basics, Domestic, Commercial and Air Conditioning for cooling, heating and automobile. A careful study of these Job Sheets along with a study of the test book, with possibly the assistance of an experienced man, will give you a good technical background.

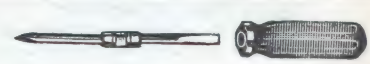
27454



Screw Starters Positive Fast Grip-Fast Release

Made with fine tool steel blade and sleeve. Center of blade twists to grip inside of screw slot when pressed against screw. Holds with a 15 lb. pull and resets and releases when screw is tightened. Positive fast grip and fast release. With nylon handle.

No.	
15059	6" Handle
15060	9" Handle



2 In 1 Vaco Reversible Screwdriver

Has shockproof plastic handle with pull out reversible chrome vanadium screwdriver blade.

No.	Blade
15700	No. 1 Phillips—3/16" Regular
15701	No. 2 Phillips—1/4" Regular



Pocket Screwdriver With Clip

Midget screw driver. Has 1/8" blade and blade is 2" long.

14891

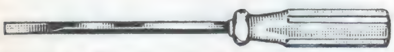
SEE SEPARATE PRICE LIST



Nut Drivers

Hexagon nut drivers with hardened sockets and shockproof plastic handles for standard hexagon nuts and bolts. Drilled 1-1/2" deep.

No.	Hexagon	Screw	Length
15708	1/4"	4	6-3/4"
15709	5/16"	5-6	6-3/4"
15710	11/32"	8	6-3/4"
15711	3/8"	10	6-3/4"
15712	7/16"	12-1/4"	6-7/8"
15713	1/2"	5/16" Cap	6-7/8"



Square Blade Heavy Duty Screwdrivers

Heavy duty with square blades which can be gripped by a wrench. Slipproof handle can not twist or break off.

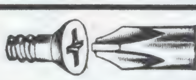
No.	•Round Blade	Blade Thickness	Blade Length	Overall Length
14925	•	1/8"	2"	4-7/8"
14926	•	1/8"	3"	6"
14927		3/16"	3"	6-7/8"
14928		3/16"	4"	7-3/8"
14929		3/16"	6"	9-3/4"
14931		1/4"	4"	7-3/4"
14932		1/4"	6"	10-1/8"
14933		1/4"	8"	12-1/8"
14934		5/16"	6"	10-5/8"
19435		5/16"	8"	12-5/8"
14936		3/8"	8"	12-1/2"



Stubby Screwdrivers

Short heavyduty screwdrivers with square blade. The insulated breakproof handles are transparent amber Durolite. The handles are all shockproof, slipproof and twistproof.

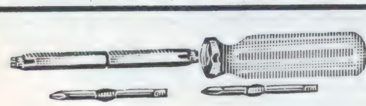
No.	Blade Thickness	Blade Length	Overall Length
14923	1/4"	1-1/4"	3"
14924	5/16"	1-1/4"	3-5/16"



Phillips Type Screwdriver

Plastic transparent slipproof handle and blade ground to fit Phillips type screws.

No.	For Screw	Blade Length	Overall Length
14958	To No. 4	3"	6"
14959	No. 5-9	4"	7-3/4"
14960	No. 10-16	6"	10"
	Stubby For Phillips Type Screw		
14961	To No. 4	1-1/4"	3"
14962	No. 5-9	1-1/2"	3-5/16"



Vaco 4-in-1 Screwdrivers

This screwdriver has reversible shank that takes a reversible screwdriver bit giving you 1/4" and 3/16" standard screwdrivers and No. 1 and No. 2 Phillips screwdrivers.

No.	Description
15749	4-In-1 Complete Screwdriver
15750	Extra No. 1 Phillips With 3/16" Regular Bit
15751	Extra No. 2 Phillips With 1/4" Regular Bit

Indestro-Duro Center Punches



For marking your work or for drilling a good center punch is needed. Made of chrome alloyed steel of finest quality.

No.	Bit	Length	Stock
6067	7/32"	5"	3/8"



Scratch Awl

Hardened alloy tool steel with hardened point for scratching metal, starting screw holes. Has cushion grip handle. 7" long.
9549

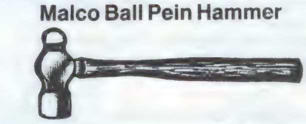
GENERAL Automatic Center Punch



A one hand automatic center punch that is foolproof, fast and accurate. Pushing the punch releases the striking mechanism. Adjusted for a heavy or light impression by tightening screw cap. Replaceable points are made of heat treated shock resisting alloy steel streamlined for easy locating. All wearing parts of center punch are heat treated. 5" long by 1/2" diameter.

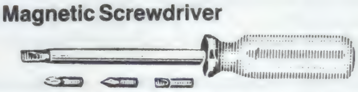
24054	Center Punch
24055	Replacement Points

Malco Ball Pein Hammer



No.	Head Wt.	Length	Face Size
28971	8 Oz.	3-3/8"	1"
28972	12 Oz.	3-3/4"	1-1/4"
28973	16 Oz.	4"	1-5/16"

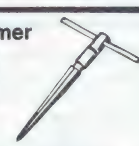
All Magnetic Screwdriver



Has hexagon shaped magnetic socket to hold the bit. Supplied with 3/16" and 9/32" regular and No. 1 and No. 2 Phillips bits. All plastic handle has compartment with screw-on cap to store bits not being used. Bits slip in and out and are simple to change.

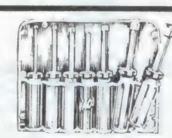
No.	Description
15747	Magnetic Screwdriver With 4 Bits
15748	Extra Pack Of 4 Asst. Bits

Repairmen's Reamer



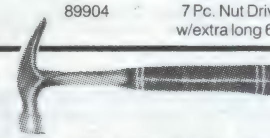
Heat treated steel with T handle. Tapered for enlarging holes in materials. Is 5-3/4" long with 3-3/4" taper. Shank is 1/2" diameter and point is 1/8" diameter.
18452

Nut Driver Kit



S6 black 3/16"; S8 red 1/4"; S10 yellow 5/16"; S11 green 11/32"; S12 blue 3/8"; S14 brown 7/16"; S16 orange 1/2"; Kit stands up or hangs up. Each driver is 7" long.

No.	Vaco	Description
15755	K-7	7-Piece Nut Driver Kit
15781	89904	7 Pc. Nut Driver Set w/extra long 6" Shaft



Malco Claw Handle Hammer

A semi-polished finish with octagon pattern neck and handle grip. Faces are beveled.
22625 16 Oz. **22626** 20 Oz.

Malco Electrician's Hammer

Extra long poll and neck for access to small or restricted areas.
9550 16 Oz.

Malco Top Reading Torpedo Level

Lightweight and durable. Three levels, plumb, level and 45°. Grooved working edge designed for use on pipe and conduit.
2371

Pocket Level

Molded plastic frame with chrome pocket clip. Multi view vial reads top, bottom or side.
9589

Forged Steel Awl

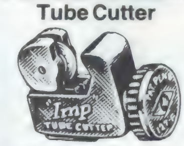
Made with a hammer forged tool steel hardened and tempered 3-1/2" blade that runs through the handle and locked into a flush steel head. Hardwood handle with steel bolster. 6-3/4" overall.
23767

GENERAL Machinists Scriber



Popular 2 point scriber for machinists with knurled fingerhold. Has one straight end, one bent point. 9" long.
24030

Tube Cutter



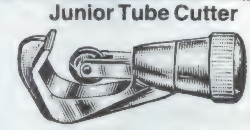
Compact fast and accurate and cuts hard or soft tubing 1/8" to 5/8" O.D. Requires only 1-1/4" clearance to swing.

16355	Tube Cutter 1/8" to 5/8"
4312	Cutting Wheel
4314	Screw For Cutting Wheel

Same as above but with greater capacity. Cuts 3/8" to 1-1/8" hard or soft tubing. Requires 1-15/16" to swing when cutting 3/8" tube and 2-1/4" to swing when cutting 1-1/8" tube. Has extra cutting wheel. No. 174F.

16370	Tube Cutter 3/8" to 1-1/8"
16344	Extra Cutting Wheel
16345	Cutting Wheel For Stainless Steel
16346	Extra Screw

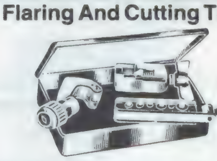
Junior Tube Cutter



Cuts tubing from 1/8" to 3/4" OD.

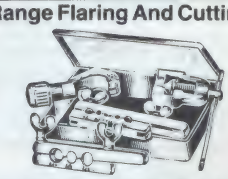
4300	Tube Cutter
4312	Cutting Wheel
4314	Screw For Cutting Wheel

Flaring And Cutting Tool Kit



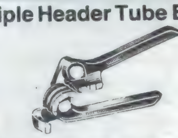
Rol-Air flaring tool No. 23084 for 3/16", 1/4", 5/16", 3/8", 1/2" and 5/8" OD tubing with Hi-Duty tube cutter No. 16342 for 1/8" and 1-1/8" OD tubing complete with an extra cutting wheel in a compact metal case.
23089

Wide Range Flaring And Cutting Tool Kit



This kit includes No. 13564 flaring tool for 1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 5/8", and 3/4" OD tubing. Tube cutter for 1/8" to 1-1/8" OD tubing and an extra cutting wheel. Complete in plastic case.
13597

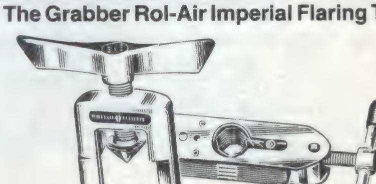
Triple Header Tube Bender



Bends annealed copper, brass, steel, aluminum and stainless steel tubing. Weighs only 5 oz. and is only 5" overall.

16371	1/8", 3/16" and 1/4" O.D.
16389	1/4", 5/16" and 3/8" O.D.

The Grabber Rol-Air Imperial Flaring Tool

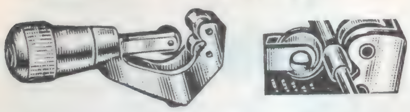


Flares Metric Tubing

Flares any size tubing from 3/16" to 5/8" OD or 4.7 mm to 16 mm OD.
16372

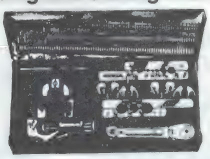
SEE SEPARATE PRICE LIST

Tube Constricter And Tube Cutter



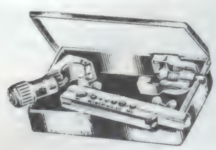
16353	Restricter Tool With Cutting Wheels
16354	Extra Constricter Wheel

Flaring And Cutting Tool Kit



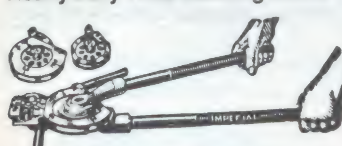
A compact handy kit including a wide range flaring tool No. 13564 for 1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 5/8", and 3/4" OD tubing a roller cutting tool No. 16342 for 1/8" to 1-1/8" OD tubing, 3 spring tube benders for 1/4", 3/8" and 1/2" OD tubing, a 1/4" ratchet wrench, and an extra cutting wheel. Complete in attractive metal case.
13570

Flaring And Cutting Tool Kit



Consists of No. 16342 tube cutter for 1/8", to 1-1/8" OD tubing, No. 23093 flaring tool for 1/4", 5/16", 3/8", 1/2", and 5/8" OD tubing, and an extra cutting wheel. Complete in plastic case.
13524

Heavy Duty Tube Bending Outfit



Radius Of Benders

OD	Radius	OD	Radius	OD	Radius
1/4"	9/16"	1/2"	1-5/8"	3/4"	3"
5/16"	11/16"	5/8"	2-1/4"	7/8"	3"
3/8"	1-5/8"				

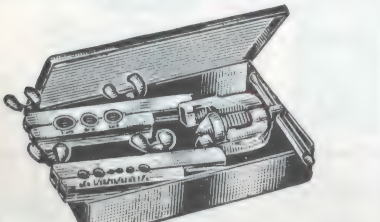
23048	Bends 6 Sizes 1/4", 5/16", 3/8", 1/2", 5/8" and 3/4" OD Tube.
4451N	Bends 7 Sizes 1/4", 5/16", 3/8", 1/2", 5/8", 3/4" and 7/8" OD Tube.

Pinch Off Tool



13553 For sizes 1/4", 3/8" and 1/2" OD tubing.

Wide Range Flaring Tool

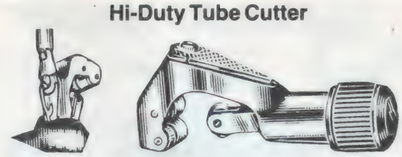


13564

One bar flares 1/8", 3/16", 1/4", 5/16", 3/8" and 7/16" OD sizes and the second bar flares 1/2", 5/8", and 3/4".

13565	Bar only 1/8" to 7/16"
13566	Bar only 1/2", 5/8" and 3/4"
13567	Yoke Assembly

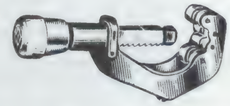
Hi-Duty Tube Cutter



Only 4-1/2" overall it has a capacity from 1/8" to 1-1/8" OD tubing. Bottom rollers with flare cut off groove roll with the tubing and cutter. The mechanism is free and easy acting and is protected from drift and damage by the streamlined aluminum alloy body and handle. Retractable hardened steel reamer that locks in open or closed positions.

No.	Description
16342	Complete Tube Cutter With Capacity 1/8" to 1-1/8" OD With Extra Cutting Wheel in Pocket
16343	Tube Cutter With Capacity 1/4" to 1-5/8" OD
16344	Extra Cutting Wheel
16345	Cutting Wheel For Stainless Steel and Hard Copper Tubing
16346	Screw For Cutter Wheel
23062	Reamer Blade
23065	Spring Washer for Reamer Blade

Hi Duty Adjust-O-Matic Tube Cutter



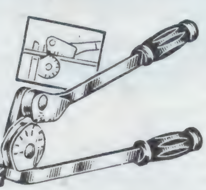
You simply push the handle down to the tubing being cut and tighten with regular easy acting handle. A release button lets you open the cutter to the full size. Capacity 3/8" to 2-5/8" OD tubing. Tool closed is 7-3/4" long.

16347	Complete With Extra Cutting Wheel In Handle
16348	Cutting Wheel
16346	Screws
23062	Reamer Blade

Similar to above but with capacity to cut 2-1/8" to 4-1/8" OD tubing. This tool has 2 rollers and does not have a reamer. Tool closed is 11-3/8".

No.	Description
16350	Complete With Extra Cutting Wheel In Handle.
16351	Cutting Wheel
16352	Screw For Cutting Wheel

Tube Benders For 1/4" To 3/8" OD Tubing



The bending form is calibrated to show degree positions and duplicate bends up to 180^0 can be made at any angle. Can be used where tubing has been partially connected. Constructed of steel, it is light in weight, yet rugged and durable.

No.	OD Tube	Radius
4390	1/4"	9/16"
4391	5/16"	11/16"
4392	3/8"	15/16"

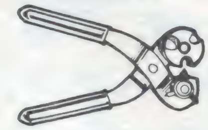
Tube Benders For 1/2" to 7/8" OD Tubing



Similar in operation and construction to the No. 4392, but for 1/2", 5/8" and 3/4" tubing. Not calibrated to show degree positions.

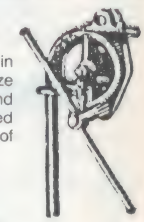
No.	OD Tube	Radius
4245	1/2"	1-1/2"
4246	5/8"	2-1/4"
4247	3/4"	3"
4450	7/8"	3"

Tube Piercing Pliers



A heavy duty piercing plier used for installing access valves to copper tubing. Three piercing point sizes: 1/8", 3/16" and 1/4". unit can be used with 3/8", 1/2" and 5/8" tubing. Care should be taken during brazing to insure conrrect positioning of valve. Caution: Do Not Pierce Pressurized Systems, Injury May Result.
1444

Holsclaw Tube Bender



Tool for making smooth, uniform bends in copper tubing. Makes a bend of any size angle that is perfect and free from kinks and flats. Durable, light weight in cadmium plated finish. Sizes are measured from center of tubing with tubing sizes OD.

No.	O.D. Tube	Radius Of Bends	U Bend Center
12713	3/4"	3"	7-1/2"
12714	7/8"	3"	7-1/2"

Flaring Tool With "Slip-On" Yoke

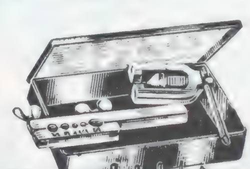


Yoke is made to slip on over the bar without twisting or turning. The inside edges of the yoke are slotted and once in position a slight turn holds it in place on the bar. An additional feature is the thin flange on the yoke, which allows flares to be made in very little space between unit and end of tubing. Flares soft copper, brass or aluminum tubing.

No.	Flares OD Tube
23093	1/4", 5/16", 3/8", 1/2", 5/8"

No.	Extra Parts
16369	Yoke Only

Double Flaring Tool

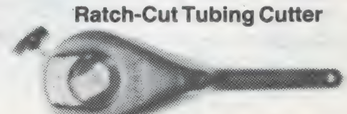


Can be used to make double flares in steel tubing with a wall thickness up to .035 and also for single or double flares in soft copper or aluminum tubing. Will flare 3/16", 1/4", 5/16", 3/8", and 1/2" OD.
13554

Extra Double Flare Adapters Only For 13544 and 13499

No.	Size	No.	Size
13574	3/16" OD	**13577**	3/8" OD
13575	1/4" OD	**13578**	1/2" OD
13576	5/16" OD	**13579**	5/8" OD
		13580	3/4" OD

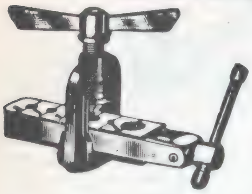
Ratch-Cut Tubing Cutter



Adjusts to fit tubing and makes a quick, clean cut. Cuts tubing from 5/16" to 1-1/8"
32190

SEE SEPARATE PRICE LIST

Rol-Air Flaring Tool



Has built-in spring that allows the cone tomake 1 or 2 revolutions as it is backed off the face of the flare. Flares 3/16", 1/4", 5/16", 3/8", 1/2" and 5/8" tubing.

No.	Description
23084	Flaring Tool No. 500FA Complete
16368	Yoke Assembly
23086	Die Holder Assembly

Swaging Tool

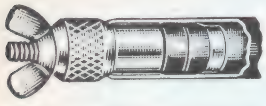


No.	Swage Tool For
4400	3/16" Tubing
4350	1/4" Tubing
4351	5/16" Tubing
4352	3/8" Tubing
4353	1/2" Tubing
4354	5/8" Tubing
4355	3/4" Tubing
4405	7/8" Tubing

No.	Description
4403	Set of 4 for 1/4", 3/8", 1/2", 5/8" In Vinyl Case

Tubing Test Plugs

Hold Up To 100 Lbs. Pressure



Used in refrigeration, heating, gas and liquid lines to temporarily shut off the end of a line without damaging the tubing or using a valve.

No.	For OD Tube	For Nominal Tube
23020	1/4" OD	1/8" Nom.
23021	3/8" OD	1/4" Nom.
23022	1/2" OD	3/8" Nom.
23023	5/8" OD	1/2" Nom.
23024	3/4" OD	5/8" Nom.
23028	7/8" OD	3/4" Nom.
23029	1⅛" OD	1" Nom.
16313	1⅜" OD	1¼" Nom.
16314	1⅝" OD	1½" Nom.

Inner And Outer Reamer



For tubing from 3/16" to 1½" OD. Imp.

13452

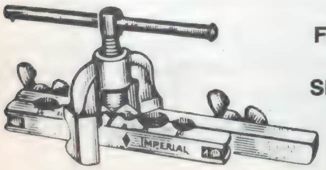
Topkraft 4 Piece Coil Spring Tube Bender Set



Set includes bender for 1/4" OD, 3/8" OD, 1/2" OD, and 5/8" OD tubing.

988

Flaring Tool With Slip On Yoke



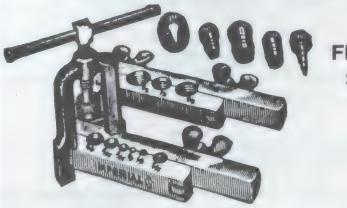
No.	Flares OD Tube Sizes
16321	3/16", 1/4", 5/16", 3/8", 7/16", and 5/8"
16322	Extra Yoke Assembly
16323	Extra Bar Assembly

Large Size "Slip-On" Flaring Tool



No.	Flaring Tool
16311	For 5/8", 3/4", 7/8" and 1⅛" OD Tubing
23050	For 3/4", 7/8", and 1" Tubing Imp.

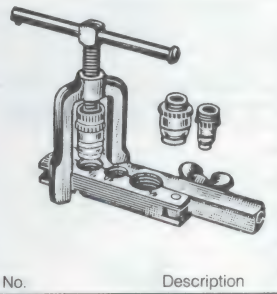
Flaring And Swaging Tool



Will either flare or swage tubing by changing a few simple adapters. Includes a bar to hold 1/8", 3/16", 1/4", 5/16", 3/8" and 7/16" OD tubing and another for 1/2", 5/8", and 3/4" OD tubing. The slip on forged steel yoke has a swivel nut that screws into the flare cone on the 4 swage adapters. Swage adapters fit 3/16", 1/4", 3/8", 1/2", 5/8", and 3/4" OD tubing. Complete tool includes 2 bars, yoke, flaring cone and 4 swage adapters.

No.	Description
13455	Complete Tool with Flaring Cone and 4 Swage Adapters
13457	Swage Adapter for 3/16", 1/4", 3/8" Tubing
13458	Swage Adapter for 1/2" Tubing
13459	Swage Adapter for 5/8" Tubing
13460	Swage Adapter for 3/4" Tubing
13398	Slip On Yoke Only
13399	Flaring Cone Adapter

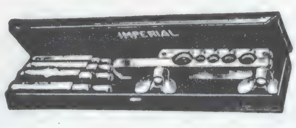
Swaging Tool



Swages 1/2", 5/8", and 7/8" OD or 3/8", 1/2" and 3/4" nominal soft copper and aluminum tubing. Has slip on forged steel yoke and adapters for the 3 popular sizes of tubing. The swaging punches screw into the yoke and are changed for each size of tubing.

No.	Description
16315	Complete Swaging Tool
13398	Slip On Yoke Only
13458	1/2" OD Extra Swaging Punch
13459	5/8" OD Extra Swaging Punch
16320	Bar Assembly Only

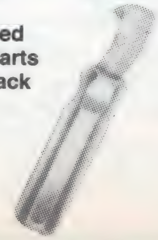
Swaging Tool Kit



Complete swaging tool kit including the four most popular sizes, 1/4", 3/8", 1/2" and 5/8" with a No. 13475 flaring bar in a compact metal case. Box 3" x 9".

4356

Sealed Unit Parts Fin Jack



No.	Fins/inch
18143	9 & 10 Fins/inch
18144	11, 12 & 13 Fins/inch
18145	14, 15, & 16 Fins/inch

Tubing Gauge



A small handy steel gauge with slots to accurately size tubing diameters .072, .081, .093, 1/8", 5/32", 3/16", 1/4", 5/16", 3/8", 7/16", and 1/2". Pocket size 1½"x3".

49409

Wagner Fin Tool



This fin tool features a nylon master handle and 6 injector type heads. Heads are designed to fit units with fin spacing of 4 through 14 fins per inch.

No.	Description	Color
18101	Kit (1 Handle, 6 heads)	
18102	Handle Only	Black

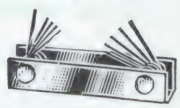
Fin Straightening Fin Comb



A simple practical tool to straighten fins on fin coils. Made of tough durable nylon. A tremendous time saver.

No.	For Fins Per Inch
1451	4, 5, 8 and 10
1445	11 and 13
1448	6, 7, 12 and 14
1409	9 and 15
1446	16 and 17
1447	18 and 20

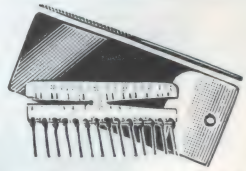
Capillary Tube Gauging Tool



Ten sizes of hardened steel wire .028, .031, .036, .039, .042, .046, .050, .055, .064 and .070 OD.

61709

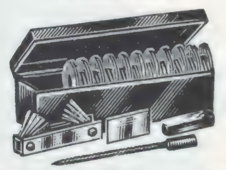
Capillary Tube Gauge



Has 16 ID plugs from .026" to .090" and 22 OD markings from .072" to 7/16" including 5 mm diam. Includes triangular file to cut tubing.

60720

Capillary Tube Chaser Kit



This kit has 10 spools of lead alloy wire a few thousands of an inch smaller than the ID of the popular sizes of capillary tube. Cut a 3/8" piece of wire to use as a piston to be pushed through the tube by the hydraulic action of the thermal tube cleaner. After cleaning away the obstruction where it will remain harmlessly. Kit complete with 10 sizes of lead wire, file, and a capillary tube gauging tool.

61708

SEE SEPARATE PRICE LIST

Capillary Tube Cleaner



0—5000 lb. pressure gauge, protecting trigger valve that shuts off the gauge when pressure exceeds 5000 lbs.

No.	Cap. Tube Cleaner
61705	Power-Unit
61706	Metal Case
61707	Extended Base
61718	0—5000 Press Gauge
61710	Adapter Neoprene Seals

Malco Tool Boxes



Available in heavy gauge steel with baked on enamel finish. Full length tote trays with easy grip handles offer additional portability.

- **61304** One compartment tote tray, single oversize positive catch draw bolt.
- **61305** Portable two drawer chest. Full suspension drawers. Lock bar automatically secures drawers when cover is closed.
- **61306** Popular size, two compartment socket set divider in tote tray.
- **61307** Extra heavy duty. Tote tray incl. three compartments plus socket set dividers.
- **61308** Cantilever box with double cover, hip roof design. Huge capacity. Extra long and high. Two of 4 trays have snap lock covers. Solid smooth working trays. 3 reinforced bottom straps.
- **61309** Hip roof design. Tote tray 2⅛" deep with socket set divider.
- **61314** Popular size, three compartment tote tray.

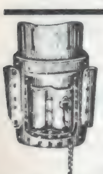
Platt Tool Cases



Cases and Pallets are guaranteed for 5 years

No.	Deep	Weight	Pallets
61250H	4¼"	6 lb.	One
61251H	6"	8¼" lb.	Two
61277H	7½"	11 lb.	Two
61252H	Extra pallets for use as work organizers or on work benches		

Tool Pouch



Has a large and a small utility pocket, 2 screw driver pockets. Has chain tape thong and knife snap. With slots to fasten to belt. Overall 8½"x11".

9561

Soft Leather Tool Pouch



Has 2 large gusseted pockets, 2 screwdriver pockets, 3 plier pockets, a tool loop, and a chain tape thong. Overall 7"x10".

9562

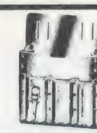
8-Pocket Professional Pouch



Large partitioned center pocket with 3 backwall screwdriver slots, 3 flared front pockets for pliers, 3 open end side pockets for strippers, screwdrivers and elongated tools. Tape pocket, tape sling and tool snap. Wide tunnel belt loop.

9571

Electrician Tool Pouch



3 plier pockets, 2 screwdriver pockets, and a knife snap. Has slots to fasten to belt. Overall 7"x10".

9560

Leather Waist Belt



A lightweight strapped belt with tool loops and tape thong. Belt 1½" wide is used to carry tool pouches. Size: 32" to 40".

9554

Brass Wire Brushes For Cleaning Condensers And Heat Exchangers



No.	O.D. Brush	No.	O.D. Brush
2882	3/8" OD	**2886**	5/8" OD
2883	7/16" OD	**2887**	11/16" OD
2884	1/2" OD	**2875**	3/4" OD
2885	9/16" OD		

- **2905** Hand grip 1/2" Dia. x 4" long
- **2901** 24" Extension Male to Female
- **2902N** 36" Extension Male to Female

Black Nylon Tube Brushes

No.	O.D. Brush	No.	O.D. Brush
2904	3/8" OD	**2908**	5/8" OD
2906	1/2" OD	**2909**	11/16" OD
2907	9/16" OD	**2910**	3/4" OD

Stainless Steel Tube Brushes

No.	O.D. Brush	No.	O.D. Brush
2911	3/8" OD	**2916**	11/16" OD
2913	1/2" OD	**2919**	7/8" OD
2915	5/8" OD		

Condenser Fin Brush



Brush to clean fins of condensers and evaporators with 8 tufts of black nylon whisk-type bristles. 2⅛" long. Overall 7" x 3⅛".

2903

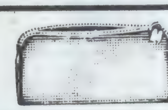
6-Pocket All Purpose Tool Pouch



Features a large center pocket, 2 front plier pockets, 2 deep open end screwdriver side pockets and steel tape pocket. Has tape sling and quick release tool snap.

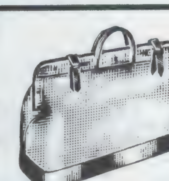
No.	Overall Size
9570	8x9½"

Tuf Tool Bag



12404 6"x12"

Heavy Duty Canvas and Leather Tool Bag



Made of heavy No. 10 white canvas with top leather-grained reinforcements on bottom and up 3" on side wall.

No.	Size
9572	16" long x 14" deep
9573	20" long x 16" deep

Standard Quick Find Chest

Sets on the floor of station wagon, panel truck, or pick up and has 58 bins in sliding drawers. Top 14 gauge steel plate, strike plate 12 gauge and heavy steel drawers. Does not have to be bolted down and can be transferred from truck to truck. Needs 39½" width and 58" length overall. Installed drawers will open under 5000 lb. pressure. Each bin is 4" deep.

61190

Three Drawer For Small Import Trucks

Only 38" wide, 58" long and 6" high, two drawers each with 22 bins 5" long and 6¼" wide and 4" deep. One drawer with 4 bins 20" long and 5½" wide and 4" deep and two bins 15" long 5½" wide and 4" deep.

61197

Handy Wire Touch Up Brush



With oil tempered straight wire .0118 diam. Has a fan about 1¼" wide and 1½" long, with strong wire handle 5¼" overall.

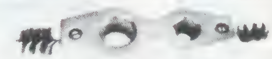
21769

Copper Fitting Brushes



No.	Solder Fitting
2890	¼" OD
2891	⅜" OD
2888	½" OD
2889	⅝" OD
2897	¾" OD
2898	⅞" OD
2899	1⅛" OD
2840	1⅜" OD

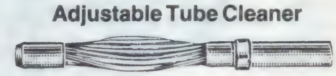
2-in-1 Brush



Easy cleaning of tubing and fittings, these stainless steel brushes are ideal for cleaning O.D. of the tubing and the I.D. of the fitting, for fast and secure soldering jobs. Brushes come with two tubing sizes.

No.	Description	Tube Size
1385	Two in one brush	½" & ¾"
1395	Two in one brush	⅝" & ⅞"
1386	Set of Replace-	½"
1387	ment ID & OD	⅝"
1396	brushes	¾"
1397		⅞"

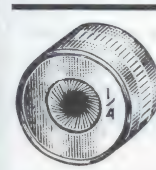
Adjustable Tube Cleaner



This tool may be expanded and reduced in diameter to fit scale tube deposits.

No.	For Tubes	No.	For Tubes
18109	5/16" to 3/8" I.D.	**18116N**	40" Ext. Rod
18110	3/8" to 1/2" I.D.	**18117**	Handle
18111	1/2" to 5/8" I.D.	**18120**	Coupling for 18109-10
18112	5/8" to 1" I.D.	**18121**	Coupling for 18111-12
18115N	30" Ext. Rod		

Copper Pipe Cleaning Brushes



Twist on in one direction and twist off in the other. Leaves tubing ready for soldering. Brushes clean outside of tubing.

No.	Tubing OD	No.	Tubing OD
2933	¼"	**2937**	¾"
2934	⅜"	**2938**	⅞"
2935	½"	**2939**	1⅛"
2936	⅝"		

Quick Find Maxi Chest

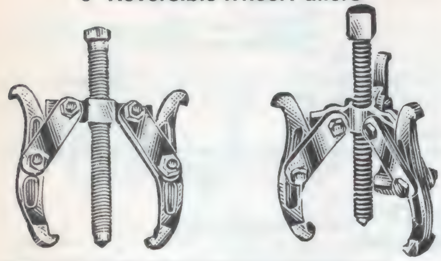


Has the same quality and sturdy construction of No. 61190N Quick Find Standard, but it has 4 drawers. One drawer is 8" wide and 4" high with the front compartment 31" long and the back compartment 24" long, and the other 3 drawers each have 22 compartments 6¼" wide 4" high and 5" long. This gives you 68 compartments 66 standard and 2 oversized. Overall 48" wide 6" high and 58" long.

61192N

SEE SEPARATE PRICE LIST

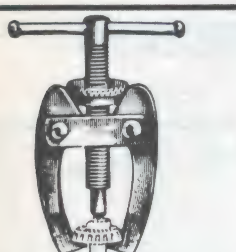
6" Reversible Wheel Pullers



Reach is 3-1/2" with center screw 5/8"—18 x 6-7/8" long.

No.	Arms	Spread
15351	2	6"
15352	3	6"

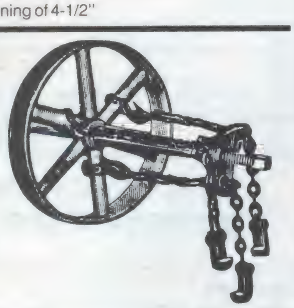
Universal Gear Puller



6025 Maximum opening of 4-1/2"

Chaingrip Gear And Wheel Puller

Capacity 3-Ton Pulling



A gear and wheel puller that can be used for pulling spoked wheels, solid gears, pinions, sheaves, etc. Can be used anywhere a chain can be run, either close up to the shaft or some distance from the shaft. Has 18" welded and proof-tested chain, with standard chain hooks on one end and special hooks on the other end.
16090

Two-Way Handy File



No.	Long	Thick
26990	8"	3/16"

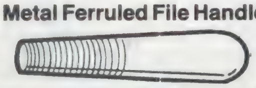
American Pattern Steel Files



Used for rapid removal of metal.

No.	Long	Thick	No.	Long	Thick
26980	8"	13/64"	**26981**	10"	1/4"
		Half Round Files			
26982	8"	7/32"	**26983**	10"	9/32"
		Round Files			
26984	6"	1/4"	**26985**	8"	19/64"
		Taper Slim Triangular File			
26986	6"	21/64"			

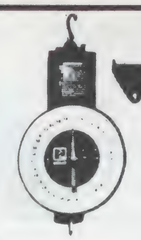
Metal Ferruled File Handles



Strong, wire bound handles with a locking grip to secure tang and ferrule to avoid splitting.

No.	Mfg.	Size
26987	1	4-7/8"x1-5/16"
26988	2	4-1/2"x1-3/16"
26989	3	4-1/8"x1-1/16"

Pelouze Hanging Utility Scale



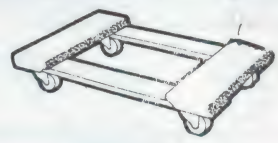
Specially designed for accurate refrigerant dispensing of gas cylinder contents on the job, this lightweight hanging utility scale has a 70 lb. capacity in 1/4-lb. increments. Clockwise and counterclockwise dial markings make accurate readings for filling and dispensing.
22360

Malco Tru Lok Tape Measures

Positive lock on blade, no creeping. Inside read printed on back of blade reads full inside measure at case opening. No need to add case dimensions. Blade back also features circumference-diameter conversion scale and decimal equivalent table.

Number	Length	Width	Number	Length	Width
18190	12'	1/2"	**18192**	16'	3/4"
18191	12'	3/4"	**18193**	25'	1"

Tote Master Ball Bearing Dolly



Rugged dolly with 3" ball bearing swivel hard rubber wheels. Approx. 5-1/2" high. Load capacity 900 lbs.
No.
23988N Nominal Size 30"x18"

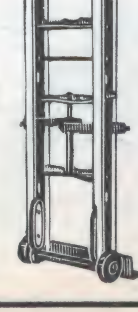
Hand Truck



Nose is 8" long x 14" wide. Truck is 46-1/2" high and has a 450 lb. capacity.

No.	Wheel Type
23974	10"x2-3/4" Semi-Pneumatic

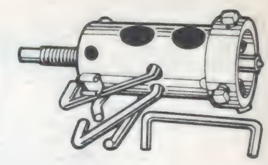
Strap Tightener Magnesium Escort Truck With Automatic Strap Recoil



Made of magnesium with ratchet strap tightener and automatic strap recoil. 60" high, 17" wide with 4"x24" footplate. Has one 3-ply 14 ft. web strap. Weighs 35 lbs. with a capacity up to 500 lbs. With crawler tread and 6"x2" cushion tread rubber wheels.

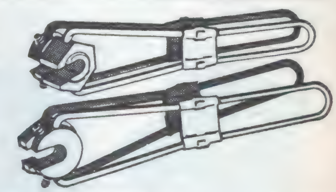
23955N	Escort Truck
23957	Extra Set of Padding
23985	Extra 2 Piece Strap Set
23989	Complete Replacement Automatic Recoil Unit With Ratchet, Tightener and Strap

ATP Fan and Blower Wheel Remover



Where the hub is exposed, the puller is secured to it with 4 square head set screws and part is removed by tightening the center shaft. If the hub is not exposed, fans can be removed by using some combination of the 5 puller arms by adjusting them to the odd or even number of blades.
15354

ATP Fan and Blower and Wheel Remover



15353 Shaft 1/2" diameter or smaller.

Rothenberger Double Utility Freeze Kit

Seals water pipes at any point of the water system by applying super cold vapor that shuts off water. No need to shut down the entire water system. Simplifies pipe work without drainage. This system enables repair and maintenance of water systems.
Easy to use and reliable. Attach Freezer heads and apply freezing vapor, make repair or system change and shut off vapor and remove freezer heads. This double utility kit will handle water tube and pipe sizes from 1/2" to 1-1/8" and comes with double freeze set-ups in each size. Kit consists of 2 handle assemblies, 2 three foot hose assemblies, 2 cans of valves, 2 cans of Ro-Frost No. 791 and 2 Freezer heads.
15279

Improved Portable Bearing Tool

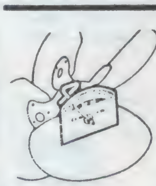


Removes and replaces bearings and bushings in all types of motors. Will remove bearings from vacuum sweepers, small or large motors and refrigerator compressors from sizes 1/2" to 1-1/8" OD.
2721

All Purpose Malco Hand Saw

Die-cast aluminum handle and tubular steel frame construction, compact and lightweight. Resists bending and is virtually untwistable. Curved front end design for comfortable two-hand operation. Uses standard 12" blades.
9592

ATP Pitch Gauge For Fan Blades



Set the base on the spider and dial plate on the fan and the pointer will show the degree of pitch of the fan blades.
15355

Jewelers' Hack Saw Frame and Blades

Designed for sawing in tight, hard to reach spaces as small as 5/8". Simply unscrew knurled handle to replace blades. Blades fit Lenox and other jeweler's frames. Carbon steel with hardened edge. 6"x1/4x.014" with 32 teeth, wavy set. Specify #1 for saw frame #27390.

No.	Description
27390	Jewelers' Hack Saw Frame 9-1/4" x 2"
27391	Blades for Jewelers' Hack Saw Frame (Sold in Lots of 10 only)

Wire Marker Booklets



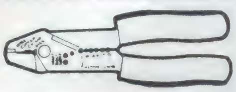
No.	Model	Description
20040	44-101	Numbers 0 to 9
20041	44-102	Letters, Numbers and Symbols A-Z, 0-15, + —, /
20042	44-103	Numbers 1 to 45

Terminal Service Kits



20144

Terminal Crimping Tool Strips and Cuts Wire and Slices Bolts



Can be used to cut and strip sizes 22 to 10 gauge insulated wires. Threaded holes in the body take common No. 4, 5, 6, 8, and 10 machine screws and slices them to exact size.

20145

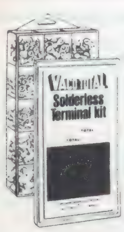
Electrical Connector Kit



Kit contains 542 electrical connectors.

15757

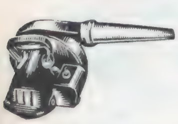
Insulated Solderless Terminal Kit



Contains 15 styles

15763

"Cadillac" Clements Hand Blower and Suction Units



Comes with detachable nozzle and 2-speed motor. Used for blowing, drying, or to vacuum. High Speed: 1 HP, velocity or air 27,000 ft. per minute. Capacity 196 cu. ft. per minute. Water lift 48", 980 Watts. Low Speed: 3/4 HP, velocity of air 21,500 ft. per minute. Capacity, 150 cu. ft. per minute. Water lift 37", 690 Watts. Shipping wt. 18 Lbs.

No.	Voltage
20050	115 Volts AC
20051	230 Volts AC
20052	Extra Nozzle

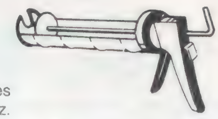
"Cadillac" Attachments for Blower Suction Unit



Set comprises a belt, male furniture nozzle, clip on brush, 4 ft. hose with sivel, 9" male non-conductive crevice tool and a dust bag.

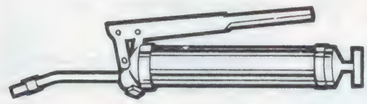
20053

HACO Caulking Gun



No.	For Cartridges
60719	7 oz. or 11 oz.

Lever Action Grease Gun and Multi-Purpose Grease



No.	Description
21270	Grease Gun 14.5 oz.
21271	Grease Cartridge 14.1 oz.

Arrow T50 Automatic Staple Gun Tacker



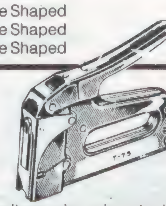
22670

Arrow Staples For T50 Stapler

Each box contains 5000 staples made of galalloy rust resistant alloy and .050 diam. wire. About 3/8" ID.

No.	Length	Staples
22675	1/4"	Pointed
22676	5/16"	Pointed
22677	3/8"	Wedge Shaped
22678	1/2"	Wedge Shaped
22679	9/16"	Wedge Shaped

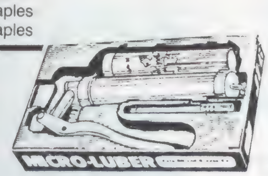
Arrow T25 Thermostat Wire Staple Gun Tacker



For thermostat, telephone, and low voltage wire using staplers with a 1/4" diameter with divergent points made of .050 wire.

No.	Description
22695	T25 Wire Stapler Gun
22697	3/8" Long Staples
22698	7/16" Long Staples
22699	9/16" Long Staples

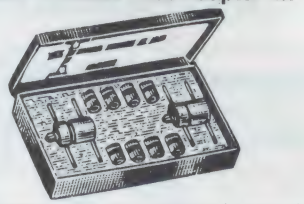
Micro Luber Grease Gun Kit



Lubricates compressors, autos, trucks, etc. Incl. 3 oz. tube of multi-purpose grease.

No.	Description	No.	Description
21290	Grease Gun Kit	**21291**	3 oz. Refill cart.

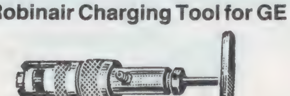
"Robbi" Process Tube Adapter Kit



Kit includes 2 master fittings with 2 adapters for each size of 3/16", 1/4", 5/16" and 3/8" tubing.

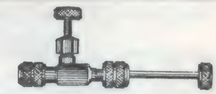
49406

Robinair Charging Tool for GE



No.	Description
49428	Charging Valve Complete

CRT Tool



Designed for removing and replacing a Schrader type core, without losing the charge.

60750

"Robbi" Test Cords



Designed to test continuity and will show open circuit on start or run windings, defective overloads, capacitors or relays. The compressor may be started independent of the capacitors and relay on the system. Switch has off, on, and momentary start positions. Has a plastic female receptacle extension that fits Whirlpool compressor terminals and other compressor pin type terminals. Has 25 Amp switch, No. 16 gauge wire and insulated alligator clips. 110V 60C.

49407

Similar to No. 49407 and will make the same tests. Has 25 Amp rotary switch with off, on, and momentary start positions. (Does not have special compressor terminal extension.) Has No. 10 gauge wires. For 220 Volts AC.

49408

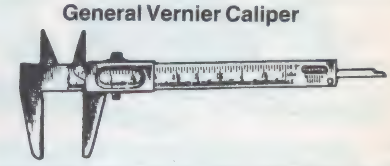
"Robbi" Pinch Off Tool



Makes a positive seal up to 3/8" OD.

49404

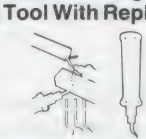
General Vernier Caliper



Permits accurate readings to one 128th or half a 64th of an inch for either outside or inside measurements. Has full 5" capacity with 1/16" and 1/32" readings and is equipped with a depth gauge.

24011

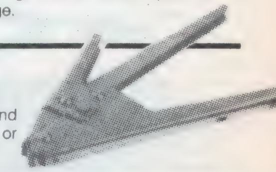
Rothenberger Deburring Tool With Replaceable Blade



Deburs copper or plastic tubing. Handle carries spare blade. Quick disconnect blade charge.

15277

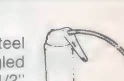
Malco Nylon Tire Clamping System



Tensioning of nylon ties around flexible duct take-off collars or other bundle diameters.

60894

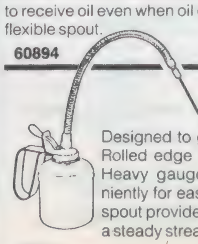
Malco Pistol Oilers



Ideal for confined areas. Long lasting steel bodies. Provides controlled feed and is angled to receive oil even when oil content is low. 6-1/2" flexible spout.

60894

Malco Heavy Duty Handled Oilers



Designed to get into those hard to reach places. Rolled edge handles provides comfortable grip. Heavy gauge steel triggers are placed conveniently for easy thumb operation. 18" long flexible spout provides controlled feed from a few drops to a steady stream.

8707

SEE SEPARATE PRICE LIST

Streamlined Side Cutting Pliers



No.	Overall	Jaw Long	Jaw Wide	Cutter
9500	7-5/16"	1-9/32"	1-5/32"	1/2"
9501	8-1/2"	1-7/16"	1-7/32"	5/8"

High Leverage Side Cutting Plier

Same as above but with bolt moved closer to the jaw to give about 4 times the leverage.

9504	8-1/2"	1-7/16"	1-7/32"	5/8"

Oblique Cutting Pliers



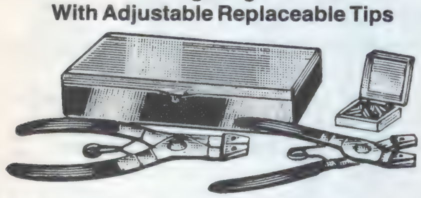
No.	Overall	Jaw Long	Jaw Wide	Cutter
9505	5-1/2"	13/16"	1-1/16"	13/16"
9506	6-1/16"	13/16"	1-1/16"	13/16"

High Leverage Oblique Cutting Pliers



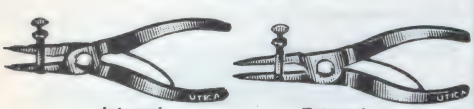
No.	Overall	Jaw Long	Jaw Wide	Cutter
9508	8"	13/16"	1-3/16"	13/16"

Retaining Ring Plier Kit With Adjustable Replaceable Tips



945 Complete Kit in Plastic Case With 2 Pliers and 16 Tips
946 Extra Set of 16 Tips

Retaining Ring Pliers



Internal External

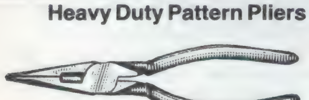
928 Internal Rings
929 External Rings

Long Nose Side Cutting Pliers



No.	Jaw Long	Jaw Wide	Cutter
9511	1-15/16"	11/16"	1/2"
9512	2-7/16"	11/16"	1/2"

Heavy Duty Pattern Pliers



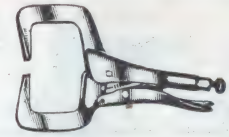
No.	Overall	Jaw Long	Jaw Wide	Cutter
9513	8-5/16"	2-5/16"	1"	5/8"

10" Forged Rib Joint Plier



922 Maximum opening 1-3/4".

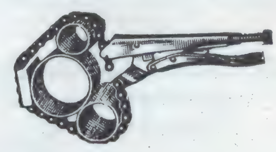
C-Clamp



Approximate Inside Opening

No.	Size	Jaws Closed	Opening	Jaws Open 3/4"
16182	6"	1-7/16"x1-7/8"	To 2-3/8"	1-1/2"x2-1/2"
16178	11"	2-1/4"x3-1/4"	To 3-3/4"	2-1/2"x4-1/8"

Vise Grip Chain Wrench



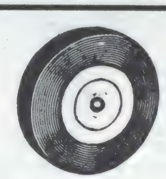
16180 Supplied with 19" length of chain.

Safe-T-Grip Fuse Puller



20030 7-1/2" long for fuses 1/2" to 1-1/2" diameter.

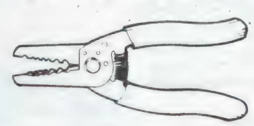
Aluminum Oxide Cloth In Rolls



Furnished in 50 yd. rolls 1" wide.

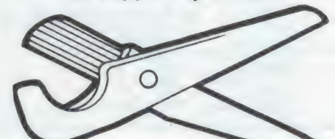
No.	Grade
14201	100 Medium
14202	150 Medium
14203	240 Fine

Spring Action Wire Stripper Strips Wire, Cuts Bolts & Wire



15758

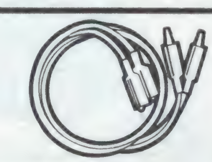
Li'l Nipper Pipe Cutter



Cuts polyethylene, polybutlyene, PVC, ABS and rubber hose; all sizes up to 1-1/2" OD.

22347

Heavy Duty Jumper Wires



61790 Set of Red & Black 36" Jumper Wire 18 AWG.

Wire Stripper Replaceable Blades



Cuts the insulation and strips it in one operation.

20063 Capacity No. 22 to No. 10

Wire Stripper



Small hardened steel with adjustable stop for all solid or stranded wire sizes. Easy, fast stripper and a cutter too. Has adjustable cam stop that holds adjustment even if screw should loosen. Spring loaded.

15752

Malco Diagonal Cutters



Powerful leverage short nose is designed to cut flush from side without obstructing handle grip. Smooth functioning box joint insures accurate alignment of cutting edges. Forged from high alloy steel.

9528 7-1/4" Length **9529** 8-1/4" Length

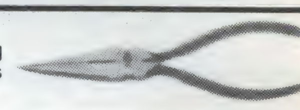
Malco Slip Joint Pliers



Extra hard, deep, sharply cut teeth insure a long life, non-slip bite. Wire cutters are placed just ahead of recessed bolt to obtain maximum leverage.

9522 8" Length **9523** 10" Length

Malco Long Nose Pliers



Milled jaws firmly grip out to very tip of nose.

9526 6-3/4" Length **9527** 7-3/4" Length

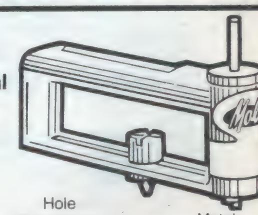
Malco Chain Nose Plier



Shallow throat chain nose plier is designed to give user a long reach, good grip and firm hold. Slim contour allows chain nose access to places where fingers or ordinary pliers will not go.

9525 8" Length

Malco Sheet Metal Hole Cutter



No.	Malco	Hole	Metal
9610	HC1	2" to 12"	16 Gauge
9611	CB	Extra Cutting Bit	

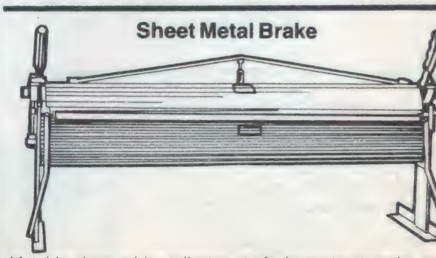
Watsco Pocket Testers—Voltage



Watsco Pocket Testers are just the thing to make that fast electrical circuit check. Easy to use, low cost testers with pocket clip are available in voltage ranges up to 440 volts.

No.	Description	Weight
01353	Low voltage, 5-50 vac/dc	.08 lbs.
01354	High voltage, 90-250 vac/dc	.07 lbs.
01355	Multi-voltage, 110, 220, 277 or 440 vac/dc	.13 lbs.

Sheet Metal Brake

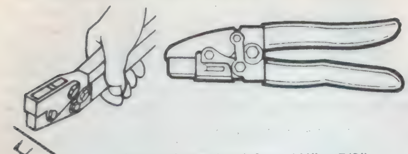


Metal is clamped by adjustment of wing nuts at each end of brake. Full width bending of 20 gauge stock. Adjustable tension bars standard equipment. Portable.

15358 Brake **15359** Stand

SEE SEPARATE PRICE LIST

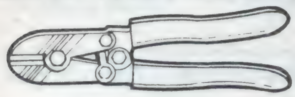
Malco Snap Lock Punch



Slide adjusts depth from 1/4" to 5/8".

No.	Depth	Long
9606	1/4" to 5/8"	8"

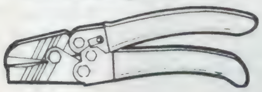
Malco Sheet Metal 5 Blade Crimper



Crimps up to 20 gauge sheet metal 1-1/4" deep.

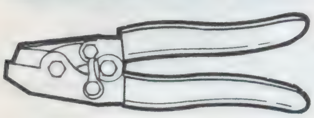
No.	Crimp	Long
9600	1-1/4"	9"

Malco Single Crimper



No.	Leverage	Crimp	Grip
9607	Compound	1-1/4"	Red
9608	Single	1-1/8"	None

Malco Sheet Metal 31° V Notcher



Compound leverage plier.

No.	Cuts 31° V Notch	Long
9601	3/16" deep	8"

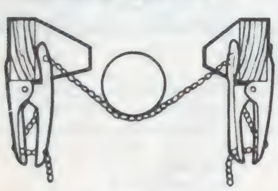
Malco Sheet Metal Folding Tool



Tool has seams for folding 3/8" and 1/2" folds on 24 to 30 gauge mild steel.

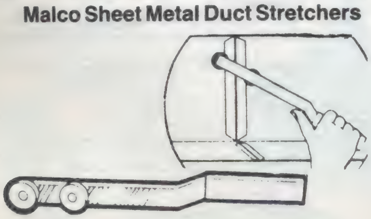
No.	Depth Folding, In.	Long
9602	3/8, 1/2"	8"
9612	3/8, 1/2"	12"

Malco Duct Holders



No.	Set
9603	2 Clamps and 4 ft. Chain

Malco Sheet Metal Duct Stretchers



Length 16".

No.	Stretcher
9604	Straight
9605	Offset

Malco Aviation Snips



Makes exacting cuts in duraluminum and other hardened sheet metals with minimum amount of effort. Handles are spring activated for fast action. Available for right or left hand curve cutting and in combination design for straight or irregular cuts. 10" handles.

No.	Snip cuts
28946	Left
28947	Right
28948	Straight right and left.

Malco Zip Snips



For continuous cuts in sheet metal stock, round and square duct, stove pipe, aluminum and steel siding. Offset design allows cut material to flow unobstructed past the blades and user's hand. 9" length.

No.	Snip Cuts
28953	Sharp left angles, straight lines and 5" dia. right circles.
28954	Sharp right angles, straight lines and 5" dia. left circles.

Malco Bulldog Aviation Snips



Specifically designed for bulldog notching several layers or trimming extra-heavy stock.

28949 9" length

Malco Double Cut Design Snips



Removes a curled strip of metal from path with virtually no surface distortion. Double cut also features adjustable taper ground outer blade.

28943

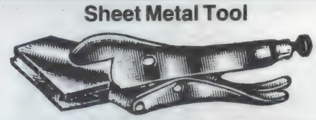
Malco Offset Hand Seamer



Bends and flattens metal easily, overhead or in confined areas. 1/4" to 1-1/4" depth cap. 3-1/4" width and 8" length.

9614

Sheet Metal Tool



With flat jaw 3-1/8" wide and a 1-3/4" deep throat. Has hundreds of uses such as crimping sheet metal, holding templates.

16176

Malco X-tra Capacity Wrenches



Greater jaw capacity than standard adjustables. For jobs where convenience of a smaller, lighter weight wrench is desired.

No.	Size	Jaw Opening	No.	Size	Jaw Opening
28960	6"	15/16"	**28962**	10"	1-5/16"
28961	8"	1-1/8"	**28963**	12"	1-1/2"

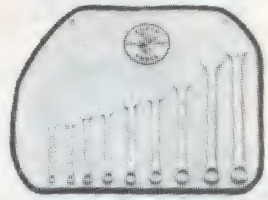
Ritchie Heavy Duty Pipe Wrench



Rugged and durable, with spin easy nut and strong flat single spring for positive jaw action. Handle design increases strength and grip control.

No.	Size	Capacity	No.	Size	Capacity
29101	8"	1 Inch	**29105**	18"	2-1/2 Inches
29102	10"	1-1/2 Inches	**29106**	24"	3 Inches
29104	14"	2 Inches			

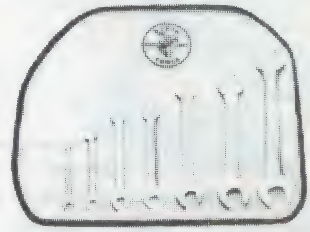
9-Piece Set



Set Contains

No.	Size	Length
	Box End 6 Point	
15374	1/4"	3-15/16"
	5/16"	4-3/4"
	3/8"	5-1/4"
	7/16"	5-13/16"
	Box End 12 Point	
	1/2"	6-1/2"
	9/16"	7-3/16"
	5/8"	8"
	11/16"	8-25/32"
	3/4"	9-5/8"

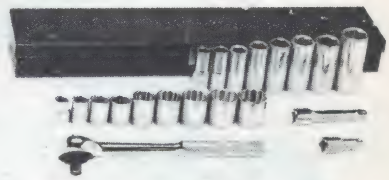
7-Piece Set



Set Contains

No.	Small Size	Large Size	Length
15376	1/4"	5/16"	4-1/2"
	3/8"	7/16"	5-3/16"
	1/2"	9/16"	6-1/8"
	9/16"	5/8"	7"
	11/16"	3/4"	7-13/16"
	13/16"	7/8"	10"
	15/16"	1"	10-21/32"

20-Piece 3/8-Inch Drive Set



Set includes four 6-point sockets: 3/8", 7/16", 1/2" and 9/16"; five 12-point sockets: 5/8", 11/16", 3/4", 13/16" and 7/8"; eight 6-point deep sockets: 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4" and 13/16"; two extensions: 1-3/4" and 3" long; and ratchet plus metal box.

No.	Description
15377	Complete 20-piece 3/8" Drive Set plus metal box.

13-Piece 1/4-Inch Drive Set



Set includes nine 6-point sockets: 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16" and 1/2"; spinner handle; two extensions: 2" and 6" long; and ratchet and metal box.

No.	Description
15378	Complete 13-piece 1/4" Drive Set plus metal box.

SEE SEPARATE PRICE LIST

5-Piece Fully Reversible Ratchet Offset Box Wrench Set



Set in heavy plastic pouch with two grommeted holes for hanging.

No.	Size	Length
15376	1/4"x5/16"	4-3/32"
	3/8"x7/16"	5-7/32"
	1/2"x9/16"	6-15/32"

Elton Squeeze Wrench 22-Piece Ratchet Kit



15390

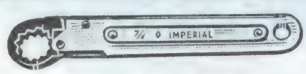
5 Piece Punch and Chisel Set



Includes a drift punch 3/32" round of 1/4" stock, a drift punch, 5-32" round of 3/8" stock; a 5/16" cold chisel of 1/4" stock, a 1/2" cold chisel of 3/8" stock and a center punch of 3/8" stock. All in handy plastic roll with 5 pockets.

22662

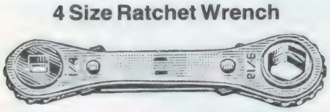
Imperial Kwick-Tite Ratchet Wrench



Wrench opens and snaps on the nut then works like a ratchet wrench in one direction. Works in close quarters, needs only 30° handle movement to ratchet. Jaws snap open with little pressure. Turn wrench over to remove nuts. Jaws are hardened forged chrome vanadium steel and handle has comfortable shape and made of strong spring plated steel. No. 199F.

No.	Description
4242	Set 3/8", 1/2", 5/8", 3/4", 7/8" and 1"

4 Size Ratchet Wrench



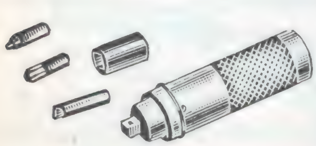
4 sizes: 3/16", 1/4", 1/2" and 9/16". Overall 6-7/8" long.

16383

Compressor Access Valve Wrench

16390 4 sizes: 1/4", 3/8", 3/16" and 5/16" square drive.

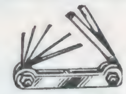
Stevens Walden Impact Hamerench



Kit includes the reversible Hamerench, a 3/8" square female to 5/16" hexagon female adapter, a 5/16" hexagon screwdriver bit and a No. 2 and No. 3 Phillips size screwdriver bits. All in metal box.

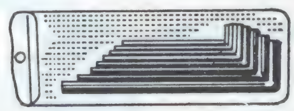
22501

Fold-Uni-Key Pocket Hexagon Wrench Set



No.	No. Keys	Wide Across Hex.
18479	9	.05 to 3/16"
18481	5	3/16" to 3/8"

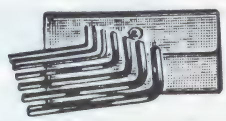
7-Piece Steel 12" Long, Hexagon Key Wrench Set



Set consists of one foot long hex keys: 5/64", 3/32", 1/8", 5/32", 3/16", 7/32" and 1/4".

18414

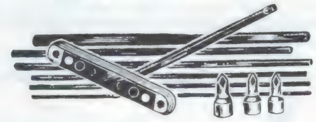
7-Piece Socket Set Screw Wrenches



A 7-piece set of plated short arm hexagon wrenches for socket set screws. In plastic case with thumb-lock seal. Width across hexagon is 5/64", 3/32", 1/8", 3/16", 7/32" and 1/4" to fit No. 8, No. 10, 1/4", 5/16", 3/8", 7/16" and 1/2" socket set screws.

18412
18413 Same as above but with the long arm wrenches.

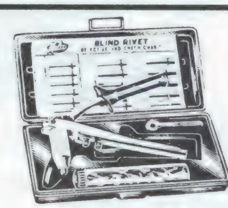
Watsco Combination Magnetic Hexagon Wrench And Phillips Type Screwdriver Set



Set includes 6 magnetic hexagon wrenches 9" long in 3/32", 1/8", 5/32", 3/16", 7/32" and 1/4" sizes and three Phillips type screwdriver tips No. 1, 2, and 3 sizes.

No.	Size
1485	Complete Set
1510	Laminated Steel Master Handle
1524	Replacement Magnetic Wrench 1/8"
1525	Replacement Magnetic Wrench 5/32"

Two In One Hand Riveter



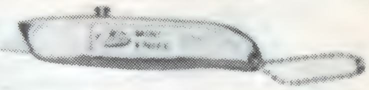
A heavy duty all steel hand riveter for blind rivets. Moving the bolt that acts as a fulcrum gives you the advantage of two riveters in one. The riveter may be used for easy pulling rivets to set in one long pull or for hard pulling rivets to set in several short pulls. Has three interchangeable nose pieces 1/8", 5/32" and 3/16". Two may be stored on the handle. An outside wheel adjusts jaws to fit mandrels and to release mandrels that stick. Small head lets you rivet in tight spaces and closed areas. In plastic molded case.

61270 Two In One Riveter Complete

1/8" Rivets For No. 30 Drill .128 to .132 Hole

No.	Rivet Body Length	Rivet Will Hold	Mandrel
61271	.232	.063 to .125	Aluminum Steel
61272	.357	.187 to .250	Aluminum Steel
61273	.232	.063 to .125	Steel Plated Steel
61274	.357	.187 to .250	Steel Plated Steel

Malco Mini-Knife



Precision, miniature utility knife stores safely in pocket. With thumb operated retractable blade that locks in 3 positions, chrome plated steel handle with handy keychain and 5 blade storage space.

No.	Description
24072	Mini-knife with retractable blade

Malco Mini-Knife Blades

5 pack of miniature blades that store easily in handle and fit most other brands of miniature utility knives

24073

Malco Top Button Action Utility Knife



Die-cast heavy duty model comes complete with 3 surgical quality, extra heavy precision blades that fit all popular models. Thumb action mechanism on top facilitates three cutting positions — fully extended, partially extended for carton opening and intermediate.

No.	Description
28966	3 position utility knife (thumb action mechanism)

Malco Utility Knife Blades

Heavy duty .025" thick Swedish, special alloy, tempered spring steel blades. Precision ground, and fits Malco and all other major brand utility knives. In bulk quantities of 100 or boxes of 10 blister carded 5 packs.

28967

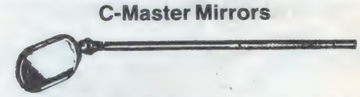
Malco Circular Duckbill Snips



Maneuvers and cuts to very tip of blade. Cuts sheet metal, aluminum and steel siding, plastics and other thin materials without tearing or catching. Hot drop forged from the finest quality high carbon tool steel. With vinyl coated handles.

No.	Length of Cut	Overall Length
28997	1-3/4"	7"
28998	2-1/2"	10"
28999	3"	12-1/2"

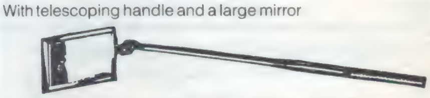
C-Master Mirrors



Will let you see around corners and in back, and are adaptable to any inspection and at every angle. Will help you work and help you find leaks. Two ball swivel joint and knurled handle.

No.	Mirror
22061	1" by 2" Oval
22062	1" by 2" Mirror Refill

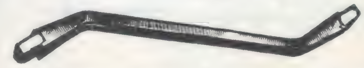
With telescoping handle and a large mirror



Overall length extended 15-5/8" and folded 6-5/8"

No.	
22063	2-1/8" x 3-1/8" Rectangle
22064	2-1/8" x 3-1/8" Mirror Refill Only

Plastic Resurfacing Tool



Each stone is 9/32" x 11/16" x 7/8" and tool is 9-3/8" overall.

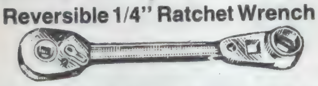
20059

Access Valve Tool



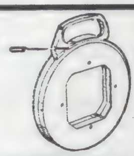
Contains six Schrader type valve cores with neoprene seals.
60753

Indestro-Duro Refrigeration Female Drive Reversible 1/4" Ratchet Wrench



Has 9/16" hexagon and 3/16", 1/4" and 5/6" square openings.
4622

Plastic Fish Tape Reel and Winder



No.	Tape Sizes
20080	40 feet x 1/8" x 0.045"
20081	100 feet x 1/8" x 0.060"

Milwaukee High Speed Steel Twist Drills

Precision ground flutes for accurate hole sizes. Black oxide finish acts as lubricant. High speed steel throughout. Drills cast malleable iron, steel, and steel forgings.

No.	Size	No.	Size
25304	1/16"	**25312**	3/16"
25305	5/64"	**25313**	13/64"
25306	3/32"	**25314**	7/32"
25307	7/64"	**25315**	15/64"
25308	1/8"	**25316**	1/4"
25309	9/64"	**25317**	17/64"
25310	5/32"	**25318**	9/32"
25311	11/64"		

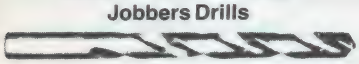
Milwaukee Straight Shank Extra Length Drills

118⁰ point

12" Long Drills

No.	Dia. In.	Twist Length
25256	1/8	6"
25260	1/4	9"
25264	3/8	9"

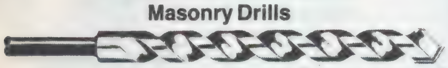
Milwaukee Cobalt Steel Jobbers Drills



135⁰ split point. With a gold finish for easy identification.

No.	Dia. In.	Length In.	No.	Dia. In.	Length In.
25277	1/16	1-7/8	**25281**	3/16	3-1/2
25278	3/32	2-1/4	**25282**	7/32	3-3/4
25279	1/8	2-3/4	**25283**	1/4	4
25280	5/32	3-1/8			

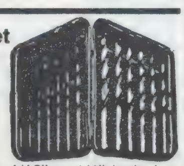
Milwaukee Carbide Tipped Masonry Drills



No.	Bit Dia. In.	Shank Dia. In.	Length
22611	1/8	1/8	3"
22612	3/16	3/16	3"
22613	1/4	3/16	4"
22614	3/16	1/4	6"
22615	1/4	1/4	6"
22617	5/16	1/4	4"
22618	5/16	1/4	6"
22619	3/8	1/4	6"
22621	3/8	1/4	4"
22622	7/16	1/4	6"
22623	1/2	1/4	6"

Hanson High Speed Drill Set In Plastic Case





Includes 13 drills in 1/64" sizes from 1/16" to 1/4" inclusive. Sizes marked on drills and in case. Pocket size case only 5"x3-5/8"x3/4".
18478H

Drills Only Without Case

18470 7 Drills 1/32" sizes 1/16" to 1/4"

Milwaukee Jobbers Length Twist Drill Sets

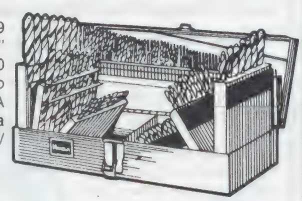


21 Piece Set
Has two folding, holding trays. Sizes 1/16" to 3/8" by 64ths.
No. **27467**

29 Piece Set
Has three folding, holding trays. Sizes 1/16" to 1/2" by 64ths.
No. **27468**

Master Tradesman Drill Set

115 drills in all. 29 fractional sizes 1/16" to 1/2" by 64ths. 60 wire gauge sizes 1 to 60 and 26 letter sizes A to Z. Case folds to a compact 2-1/4"x4-1/2"x13".
No. **25276**



Milwaukee Heavy Duty Bi-Metal Hole Saws



Standard cut to 1-1/4" depth.

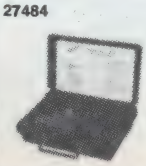
No.	Hole Dia. Size	Pipe Tap	Pipe Sizes Pipe Entrance	For Copper Pipe Size (I.D.)
23833	9/16"			1/8"
23834	5/8"			1/4"
23896	11/16"			3/8"
23844	3/4"		3/8"	1/2"
23870	13/16"			1/2"
23845	7/8"	3/4"	1/2"	5/8"
23871	15/16"			
23872	1"			3/4"
23873	1-1/16"			
23846	1-1/8"	1"	3/4"	3/4"
23874	1-3/16"			
23847	1-1/4"			1"
23875	1-5/16"			
23848	1-3/8"		1"	
23876	1-7/16"			
23849	1-1/2"	1-1/4"		1-1/4"
23877	1-9/16"			
23878	1-5/8"			
23879	1-11/16"			
23850	1-3/4"	1-1/2"	1-1/4"	1-1/2"

Milwaukee Heavy Duty Hole Saw Kits

13 Piece Hole Saw Kit



Consists of 3/4", 7/8", 1-1/8", 1-3/8", 1-1/2", 1-3/4", 2", 2-1/4", 2-1/2" sizes and sturdy plastic case.
27484



17 Piece Hole Saw Kit

Consists of 5/8", 3/4", 7/8", 1", 1-1/8", 1-1/4", 1-3/8", 1-1/2", 1-3/4", 2", 2-1/2", 3" sizes. Pilot drills and sturdy plastic case.
27482

Milwaukee Heavy Duty Heat Guns



Use wherever portable, flameless heat is required. Double insulated, impact resistant heating element. Dual temperature 570⁰F. and 1000⁰F.
No. **8975**

Milwaukee Heavy Duty Swivel Head Shear



Cuts round, square, irregular holes. 360⁰ swivel head. Cuts up to 15' per min. Continuous metal curl. Head assembly designed for easy servicing. 120V 3.3 amps. 7" min. radius.
No. **27493**

Milwaukee Heavy Duty Hammer Drills



Impact resistant, non-conductive motor housing and handle. Aluminum gear case and diaphragm supplies greater support. Depth gauge adjusts to any drilling depth required for anchors. Side handle can be used on either side and with or without depth gauge. Trigger speed control. Reversible.
No. **27496**

Milwaukee Heavy Duty Magnum Hammer Drills



Trigger speed control model with quik-lok cord sets. Removable brush cartridge system. Self-storing brushes. Storage for extra carbons. Heavy duty industrial chuck.
No. **27495**

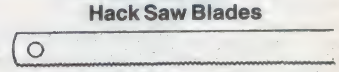
Milwaukee Heavy Duty



High Speed Molybdenum Steel. 10 Wavy Blades.

No.	Length	Teeth
15820	10"	24 teeth/in.
15821	10"	32
15822	12"	24
15823	12"	32

Milwaukee Bi-metal Hack Saw Blades



No.	Length	Teeth Per Inch	No.	Length	Teeth Per Inch
15824	10"	18	**15827**	12"	18
15825	10"	24	**15828**	12"	24
15826	10"	32	**15829**	12"	32

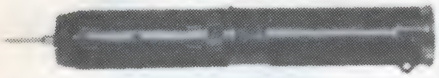
Jab Saw



9591 With 10" blade, 10-1/4" Overall

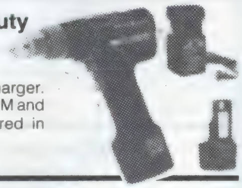
Tools/Test Instruments

Milwaukee Heavy Duty Cordless Screwdriver Reversing



6 position adjustable clutch. Forward reverse button with switch lock feature.
No. **27494**

Milwaukee Heavy Duty Cordless Drill



Incl. drill, battery pack and charger. 3/8" cap. 9.6 V. 2 speed 350 RPM and 750 RPM. Clutch key secured in built-in key holder.
No. **27491**

Milwaukee Heavy Duty Magnum Hole Shooters



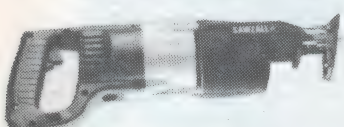
Trigger speed control with reversing switch. ½" powerful 4.5 amp RPM speed control.
No. **27497**

Milwaukee Heavy Duty Hole Shooters



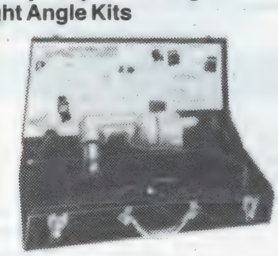
Aluminum gear case and diaphragm supplies greater support for ½" shaft and bearings.
No. **27492**

Milwaukee Heavy Duty Sawzall



Powerful lightweight, portable electric reciprocating saw in a complete unit. Cuts any shape in wood plaster metal plastics, masonite, builders transite and resilient stock. 120V, 4 amps, ¾" stroke, 16" overall length.
No. **27498**

Milwaukee Heavy Duty Reversing Hand Drill Right Angle Kits



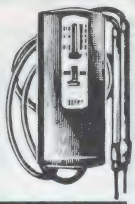
No. **27499**
For use with up to 2-9/16" selfeed bits. Head and handle swivel 360⁰ and can be locked tight into any position.

Wood Folding Rules

Premium quality wood rules have 6" graduated brass extension. Deeply embossed markings with a clear, abrasive resistant coating that will not crack, peel or discolor. Solid brass strike plates and end caps. 6" folds, 5/8" wide blade, graduated in consecutive inches by 16ths. Stud markings every 16 inches. Boxwood finish. Available with inside or outside measurements.

No.	Reading Type	Length
2M140H	inside	6'

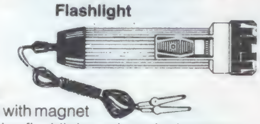
Ideal Voltage Tester



Gives double protection by using both a solenoid voltage indicator and a neon test lamp. Test prods ½" long with 4" insulated handles with 2 ft. leads. Shows current from 110 to 550V AC and 110 to 600V DC, blown fuses, grounds, etc. Molded case holds one test prod like a handle.
No. **20089**

RAYOVAC Work Horse Flashlight

Flashlight



No.	
22051	Flashlight
22052	Flashlight with magnet
22053	Combination flashlight and continuity tester
22054	Safety flashlight for use in hazardous conditions

RAYOVAC Flashlights and Batteries

Alkaline Batteries

22055	AAA	**22058**	D
22056	AA	**22059**	9 Volt
22057	C		

Malco Drop Lights

Grounded Steel Guard

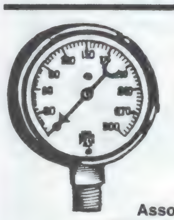


High visibility orange thermoplastic PVC cord jacket. Grounded swing-open steel guard. Has on-off, push-thru switch and one grounded side outlet. For lamps up to 75 watts.

No.	Wire-# 6 Ga. Insulation Type	Feet	Amps—Volts
28964	16/3 SJT	25	13A-125V
28965	16/3 SJT	50	13A-125V

MEETS OSHA REQUIREMENTS

U.S. Standard Pressure Gauges



Gauge with non-corrosive movement mounted on the gauge socket independent of the case. Accurately adjusted nonbinding movement. Black drawn steel cases. Fully guaranteed.

Assort For Quality Prices
2" Case With Bottom Connection

No.	Pipe Thread	Reading
8710	1/4" IPT	0-30 Lbs.
8711	1/4" IPT	0-60 Lbs.
8712	1/8" IPT	0-100 Lbs.
8713	1/4" IPT	0-100 Lbs.
8714	1/8" IPT	0-160 Lbs.
8715	1/4" IPT	0-160 Lbs.
8716	1/4" IPT	0-200 Lbs.
8717	1/8" IPT	0-300 Lbs.
8718	1/4" IPT	1-300 Lbs.
8730	1/4" IPT	0-600 Lbs.
8731	1/4" IPT	0-1000 Lbs.

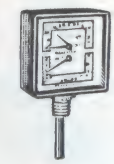
2" Case With Back Connections

No.	Pipe Thread	Reading
8719	1/4" IPT	0-30 Lbs.
8720	1/4" IPT	0-60 Lbs.
8721	1/4" IPT	0-100 Lbs.
8722	1/4" IPT	0-160 Lbs.

2½" Case With Bottom Connections

No.	Pipe Thread	Reading
8723	1/4" IPT	0-30 Lbs.
8724	1/4" IPT	0-60 Lbs.
8725	1/4" IPT	0-100 Lbs.
8726	1/4" IPT	0-160 Lbs.
8727	1/4" IPT	0-200 Lbs.
8728	1/8" IPT	0-300 Lbs.
8729	1/4" IPT	0-300 Lbs.

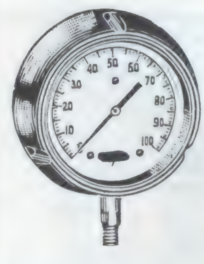
Combination Pressure Temperature And Altitude Gauge



In 3-1/2" square and 2-1/2" round case with 50 lb. pressure, 115 ft. lift, and 60⁰ to 260⁰F. temperature scales. The pressure and altitude have accuracy ± 2% of middle of scale and ±5% of balance with ± 2% for full scale on temperature. Drawn steel case in black epoxy based enamel baked finish with flat glass crystal. White dial with black marking with red danger band on pressure scale and red altitude scale. Precision quality brass movement with finished bearing surfaces.

No.	Connection	Square Case
8735	1/2" IPT Bottom	3-1/2" Square
8736	1/2" IPT Back	2-1/2" Round

4½" Dial Pressure Gauges



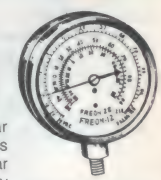
A quality pressure gauge for permanent installation for heating, air conditioning and plumbing. Gauge is mounted in a polypropylene turret case with gasketed glass crystal. Dial has black lithographed markings on white background with adjustable balanced black pointer. The heavy duty large bore phosphor bronze. Bourdon tube is silver soldered. It operates the rotary type bronze movement using bronze links and screws. Accuracy within 1% of full scale. Case 5-9/16" OD and 2-5/32 deep with mounting holes on a 5⅜" diam. circle. Bottom connected ¼" MIPT nipple 1¾" long.

No.	Range Lbs.	Division Lbs.
66020	0-30	1/4
66021	0-60	1/2
66022	0-100	1
66023	0-160	1
66024	0-200	2
66025	0-300	5
66026	0-400	5
66027	0-600	10

Imperial Single Charging And Testing Unit

Testing valve with forged brass body. Connections are 1/4" SAE with 1/8" FIPT gauge connections. Supplied with hand wheel but without gauge.
No. **23058**

Frostline Refrigeration Gauges With External Zero Adjustment



Accurate 2-1/2" gauges with regular pressure scale and temperature scales for R-12, R-22, R-502 refrigerants. Clear black markings on white dial. Quality brass construction with precision made smooth acting movement with external screw zero adjustment on back. Black baked enamel finish. Has 1/8" MIPT connections.

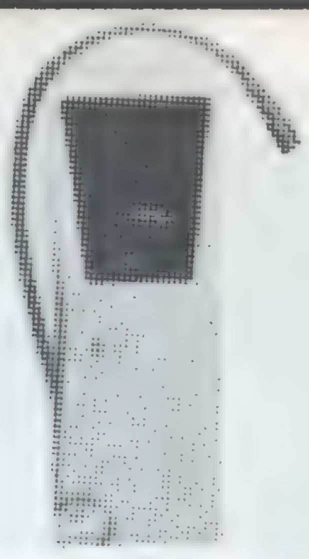
No.	Description
8732	Pressure 30 to 500 lb.
8733	Compound 30" Vac. to 150 lb.
8734	Compound 30" Vac. to 120 lbs. with retard to 250 lb.

TIF 8800 Combustible Gas Detector



Portable battery solid state electronic gas detector with U.L. approval for use in Class-1 Hazardous Atmospheres. Provides ticking signal which increases when source is approached. Incl. flexible probe for hard to reach areas, carrying case, rechargable batteries, and recharger adapter.

No. **65261H**



TIF 5000 Automatic Halogen Leak Detector

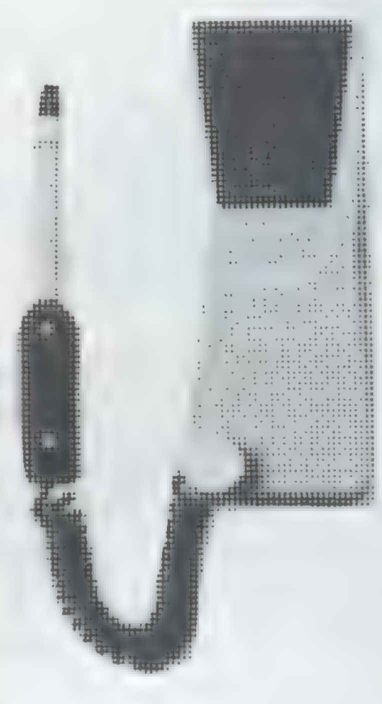
Produces a beeping signal which increases when leak source is approached. Calibrates itself automatically while in use. Comes complete with batteries, extra sensing tip, tip protector, filter cloths and carrying case.

No.	Description
65255H	5000 Leak Detector w/case

Accessories for Model 5000

No.	Description
65241	Extra sensing tip
65242	Extra tip protectors (3)
65243	Pkg. of 12 filter cloths
65244	Maintenance kit of above accessories

TIF 5500 Pump-Style Automatic Halogen Leak Detector



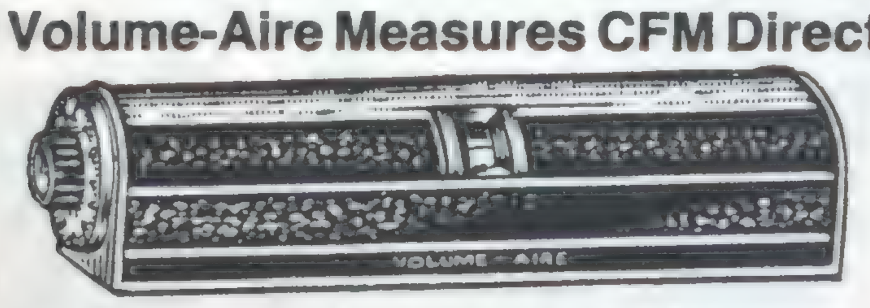
Automatic micropump that takes in a sample of halogen bearing air to improve response time. Permanently sealed miniature battery operated pump and produces a beep which increases when leak source is approached. Calibrates itself automatically. Batteries incl., extra sensing tip, tip-boot and heavy duty carrying case.

No.	Description
65271H	5500 Leak detector w/case

Accessories for Model 5500

No.	Description
65272H	Extra sensing tips
65273	Sensing tip boots
65274	Filter Balls (12)
65276	Maintenance kit of above accessories has 2 tips 3 boots 12 filter balls
65245	Earphone
65223	Reference leak

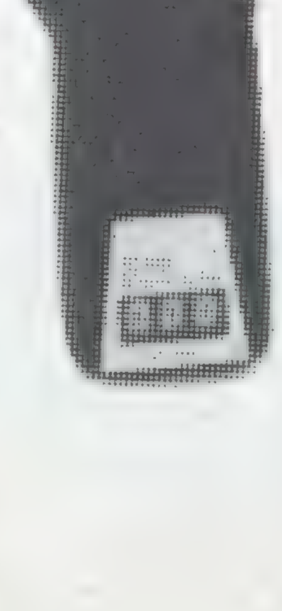
TIF Volume-Aire Measures CFM Directly



The Volume-Aire measures the volume in cubic feet per minute at the grill. The dial at the side is set to match the size of the grill's surface in square inches. Then the instrument is held against the face of the grill and the knob is turned until the hairline appears over the red line on the moving indicator. The CFM is then read directly from the dial. The same results will be made by repeated readings or by anyone using the instrument. It is consistent, accurate, and repetitive. It may be used to adjust the grill to give a desired CFM by presetting the instrument to the CFM wanted and bringing the red line under the hairline by opening or closing the grill damper. It will save hours of time in balancing a system. Instrument is in aluminum case with grained plastic trim. 2¾" wide, 2⅞" high and 13⅛" long weighing 28 oz. In carrying case.

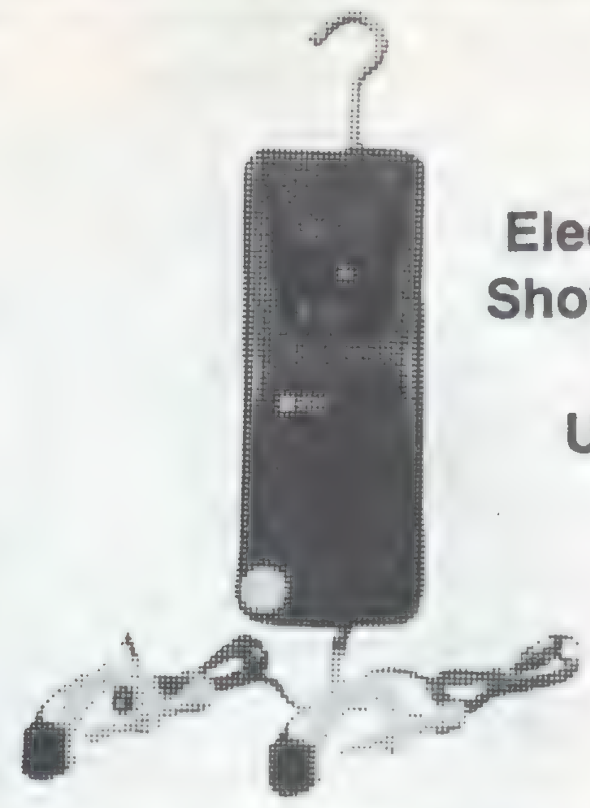
65200H

Digital Photoelectric Tachometer TIF-770



Utilizes the fundamental concepts of electronic eye so that the photo cell responds to variations of reflected light from its self-contained light emitting source. Eliminates the need for any mechanical or electrical contact with the device being measured. Automatically reads RPM's (without torque loss) from 100-10,000 in shop or field and additional features include bright digital read-out with solid state circuitry for legible readings in any type of light, complete portability and polypropylene housing. Batteries incl., case, reflecting tape and light bulb.

65293



TIF 4000 Electronic Sight Glass Shows Best Refrigerant Charge Using Ultrasonic Waves

TIF Electronic Sight Glass uses two transducers clamped to the refrigerant line. One transmits inaudible, high frequency sound waves through the tube to the other transducer. The instrument reacts to the change in the ultrasonic waves when they go through liquid refrigerant by beeping every 2 seconds, showing a fully charged system. If refrigerant is needed and bubbles are present, the change in ultrasonic waves makes the instrument react with a singing sound. Used on the suction line of a capillary tube system, the presence of droplets shows a fully flooded system. In this case the bubbles, making a singing sound, show a fully charged system. The complete instructions make it very easy to put the best refrigerant charge in each system. It can be used to balance a system with multiple evaporators, to adjust thermostatic valves or to select capillary tubes. With no warm up time, the unit responds in seconds. The transducers clamp to tubing ⅛" to 1¼" OD and have 42" cords. Complete with carrying case, Service Hook, 9V battery, and instructions.

65256H

TIF 1250 TIF PowrProbe

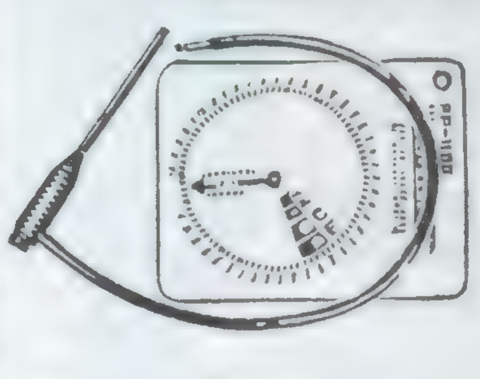


AC clamp on meter measures amperes — volts and ohms easily and quickly on the same mirrored linear scale. A small wheel selects the desired range. Has a button to take and hold surge peak readings. A range expander button divides range by ten, giving reading down to 1/10th of an ampere, volt or ohm. One hand operation with screw in probe and 3 foot fused lead accuracy 3% + or — full scale. Uses 4 AAA batteries. Complete with carrying case, batteries, leads and operation instructions.

Ranges	
Volts and Amps AC	Ohms
0 to 1250	5 Ohms Midscale

No.	Description	
65262H	PP1250 PowrProbe	
65263	PP1251 Fixed Probe	
65264	PP1252 Fused Probe	
65265	PP1204 Alligator Clip Probe	
65266	PP1256 Fixed Flexible Probe	
65267	PP1205 Fuse	

Temperature Probe to Convert TIF 1000 to Digital Electronic Thermometer



The temperature probe plugs into the Ohm jack of PP 1000, our No. 65205H. The dial on the conversion computer is turned to match the digital reading and converts to temperature in degrees F. and C. Range -20°to +225°F. and -29°to +107°C. Excessive use at over 190°F. or 88° C. temperatures is not recommended. Response time is 45 sec. in air or 10 sec. in liquid. No. TP1100.

65207

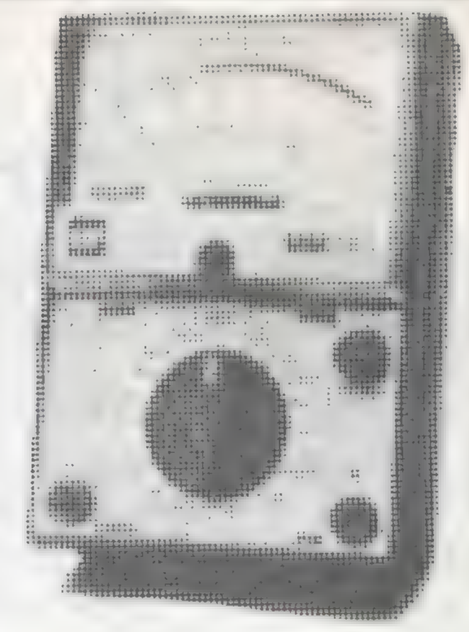
TIF-200 Digital MultiMeter



Pocket sized multimeter accurately provides 26 popular ranges. Instantaneous update, gold switch contacts, superior overload protection and low battery indication. Case and battery incl.

65296

TIF-240 MultiMeter



Portable volt/ohm multimeter, with a parallax mirror and temperature scale, plus reinforced plug jack/banana plugs for low resistances. Contact checks continuity in circuits, locating defective components before installation, shorted capacitors, open or otherwise defective resistors, shorts or openings in wirings.

65288	Multimeter
65289	Temperature probe
65291	Current transducer



Megohmmeter-Insulation Tester-990

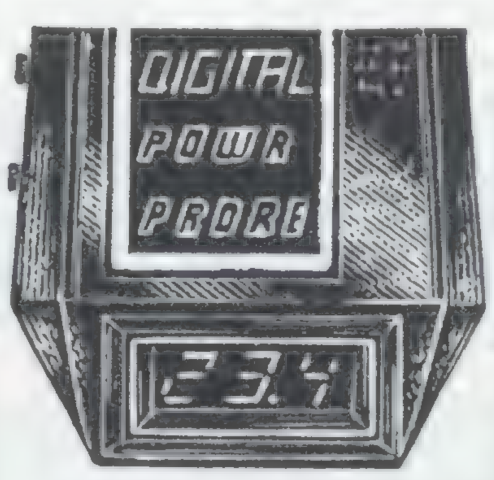
Capable of measuring leakage from 1-1000 megohms at 500V-DC. Easy to read scale built in battery check, waterproof dustproof switches, high impact ABS plastic case and guard circuit to eliminate surface leakage. Ideal for non-destructive testing of electrical insulation and resistance; measurements of transformers, motors, cables, switches, electrical wiring, relays and appliances. Complete with batteries, case, and test leads.

65292



TIF Digital Power Probe Checks surge Current TIF 1000

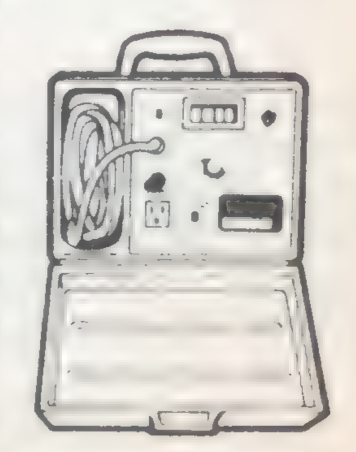
Digital clamp on Volt-Ohm Ammeter that reads AC, Amps, Volts, or Ohms in 3 large illuminated figures with automatically positioning decimal point for ampere readings. An outstanding and novel feature is that it shows and holds the starting surge current of a motor by keeping the test button depressed. When the button is released and again depressed it shows the running current. The ability to hold the starting surge current has always been needed to check motors and motor compressors. The unit is so sensitive that it shows the changing current draws of the motor when starting hot or cold or under a partial or full load.



The jaws open 1⅜" to take one lead to make the amperage tests. A fixed probe and a fused cable probe are used to check ohms when plugged into the jack to check ohms. Accuracy is ±2% for 110, 220 and 440 volts and for amperes and ohms below 500 Amps. Has over voltage protection, with over range indication and fused probe. Complete with 4 AA alkaline batteries a fixed and a fused probe, and a carrying case. Can be used on 60 cycle current.

65205H

"Robbi" Digital Volt/Amp/Watt Meter



The unit features safety fused solid state circuitry and a rugged LED display for accurate voltage (120/240 AC, 50 or 60 HZ), amperage, and wattage measurement. A normal and peak switch setting allows servicemen to monitor a system or capture the highest readings recorded on the display. The instrument is furnished complete with a grounded outlet and a durable plastic case which can be hung from a hook.

49457H

SEE SEPARATE PRICE LIST

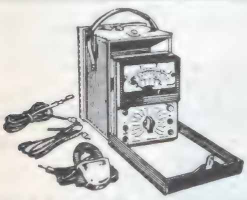
Test Instruments



Op-Tach Digital Optical Tachometer

Pistol grip design. 4-1/2 digit LCD display. Safe and easy non-contact operation. Range of 50 to 20,000 RPM. Accuracy to ±1 RPM. Last measurement memory.

No.
12098



Amprobe TAM-3 Kit

TAM-3 is a professional kit used to test voltage, current and temperature. Consists of AM-3 Multimeter, current transducer, thermocouple, universal temperature probe, all in a deluxe carry case. Multi-meter has easy to read color-coded mirror scale—Taut Band movement, diode protected-fuse-many ranges for industrial applications and service work.

Voltage Ranges	AC 0-30/150/300/750/ (10,000 OHMS per V.) DC 0-30/30/150/300 (100,000 OHMS per V.)
Resistance Ranges	0-500 ohms (5 ohms midscale) 0-5,000 ohms (50 ohms midscale) 0-50,000 ohms (500 ohms midscale) 0-5 megohms (50,000 ohms midscale)
Current Ranges	DC 0-1 - Micro Amperes "uA" 0-15/150uA e 300MV. 1-1.5/150 MA e 300MV. AC 1-5/25/100/250 Amperes obtained by use of supplied transducer.
Millivolt Ranges	DC 0-75/300/750/1500 MW
Temperature Ranges	Low - 10°F to 250°F obtained by use of supplied High + 70°F to 1200°F probes

Used 2-C-batteries. Not Supplied.

No.	Description
11770H	TAM-3 Kit
11771H	AM-3 Multimeter
11774	Fuse 3AG312



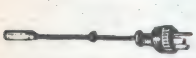
Amprobe Energizer

The equipment is plugged into the Energizer and the energizer is plugged into the outlet receptacle. The Energizer splits the line and has openings to take the jaws of any amprobe to take current readings of 1X or 10X the ampere scale. The ends have openings for test leads to take voltage readings. 5-3/16" long x 9/16" x 1-5/16".

With a shorting cap and 2 adapter leads to simplify connecting the Energizer in series and to permit current readings on low current motors, solenoids, or other equipment permanently wired.

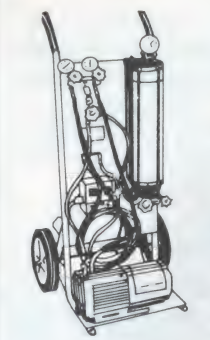
11684

"Robbi" Heating Element For "Robbi" Charging Cylinders



This heating element will fit into the lower cylinder cap of all the "Robbi" charging cylinders to reduce the charging time. Threaded element is 50W 120V and will raise the pressure in the cylinder from 8 to 13 lbs. for every 10 minutes of heating time. This will vary according to refrigerant and ambient temperature. With installation instructions to fit all "Robbi" cylinders. We recommend care and caution when using heater to keep the pressure within safe limits.

No.	Robbi	Watt	Current
49440	14284-2 With Plug	50W	110V



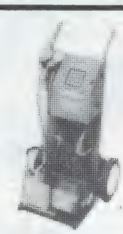
Robinair Portable Charging Stations

These charging stations have all the equipment on a steel tubular rigid frame. Cart has 1-3/4" x 10" pneumatic ball bearing wheels and provision to mount refrigerant drums in back. All stations have fused junction box with separate pump and heater switches—dial-a-charge refrigerant measuring cylinder, gauges, manifold, and 96" color-coded charging lines. These complete service stations require only one hook-up to bleed, dehydrate, and charge a refrigerant system. Ideal for use in the shop or to take to the job for evacuating and recharging window air conditioners, freezers, and refrigerators.

Charging Station 115 Volt 60 Cycle

No.	Cyl. Cap.	Pump Cap.	Net Weight
49463Y	5 lb.	2.2 CFM 2-stage	68 lbs.
49464Y	10 lb.	4.5 CFM 2-stage	68 lbs.

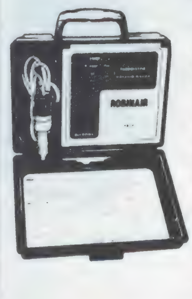
Robinair Smart Cart



Portable automatic evacuation and recharging station designed for trouble-free operation and complete charging accuracy. Can be programmed for automatic system evacuation and refrigerant charging.

49476

ROBINAIR Solid State Thermistor Vacuum Gauge



This rugged thermistor vacuum gauge features solid state circuitry and 10 individual light-emitting diodes to indicate vacuum levels from 25000 to 50 microns. This battery operated vacuum gauge is furnished with a durable plastic case that can be hung from a hook. The ultimate in convenience and economy for vacuum measurement. Operating temperatures: 0° to 120°F. Storage temperature: 0° to 158°F. Uses three "D" batteries for the circuitry and 3AA batteries for the LED display. Batteries not included. Comes complete with instructions.

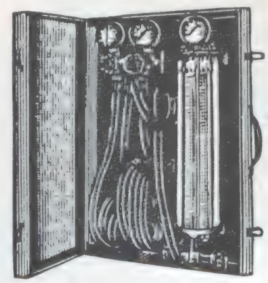
No.	Model	Description
70650H	14830	Complete with tube and case
		EXTRA THERMOCOUPLE TUBES ONLY
70645H		Used with Robbi No. 14010 & 14830

"Robbi" Dial-A-Charge Charging Cylinder



This accurate charging cylinder compensates for different pressures-temperatures in the system allowing you to add an exact charge of refrigerant to within plus or minus 1/4 oz. A 300 lb. pressure gauge mounted on top of the unit shows the pressure in the system. The outside clear plastic cylinder is transparent and has several scales for several different pressures to match the pressure-temperature from 60° to 110°F. The outside cylinder is rotated to bring the proper scale in front of the sight glass tube. Simple and accurate. Refrigerant is charged through 1/4" SAE Schrader sealed port and dispensed by a hand valve with a teflon seal and 1/4" SAE fitting. Aluminum carrying handle and stand 27-1/2" high.

No.	Scales for R12 and R22 and also for	Capacity	Weight
49400G	R114	40 Oz.	6 Lb.
49401G	R502	5 Lb.	7 Lb.
49415G	R114, R502	10 Lb.	11 Lb.

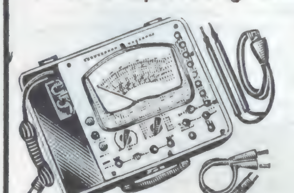


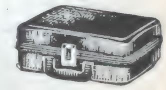
"Robbi" Dial-A-Charge Portable Carrying Case

A complete charging outfit with charging cylinder similar to No. 49400 but mounted in the case with two valves on the cylinder. Has a complete charging manifold with valves and gauges and 3 ft. charging lines. Sizes 25" x 17-1/2" x 6-1/2".

No.	Refrigerant	Capacity	Weight
49403G	R12, R22, R502	5 Lb.	28 Lb.

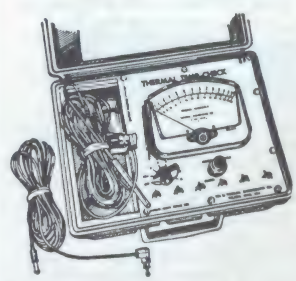
Thermal Super Refrigeration Components Parts Analyzer "Megger" With Tachometer Scale





Has a megohmeter reading 0-500 megohms at 500 VDC to read winding to ground resistance, a tachometer scale on the meter with a range of 0-500-5000 RPM registers when used with a hand held transducer, is plugged in. The large 7" meter has 3 Voltmeter ranges 0-60-150-600 Volts AC and DC with 2000 Ohm/Volt AC and 5000 Ohm/Volt DC. Ohmmeter ranges 0-500-50000 and 0-50 on special ultra low Ohm scale. Test relay contact operations with test lamp and pull-in and drop-out voltages to 480 V for potential relays and current to 30 Amp for current relays. Capacitors are checked in 3 ranges 0—15, —150, —600 microfarads with safety from shock or damage to capcitors. In attractive 9-3/8"x12-3/8"x4-7/8" royal blue case with detachable cover complete with instructions. No. 13001. (Transducer to register RPM on Tachometer Scale not included). See No. 61731.

61729	Complete Super Component Check With Large 7" Meter 3 Voltage Ranges AC-DC Ohmmeter, Megohmmeter, and Tachometer Scale in plastic case.



Thermal Electronic Thermometer Unit

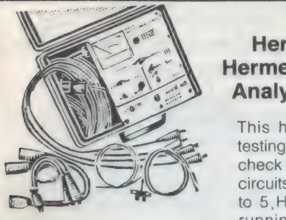
An electric thermometer with a range of —50° to 100°F, and 100° to 400°F, and 100° to 1500°F. Reads temperatures in ovens, refrigerators or freezers. Unit includes one high range and one low range probe and one thermocouple probe but extra probes may be purchased for use in up to 6 locations using the selector switch to check them one at a time. Probes are 15 ft. long. Complete with instructions in plastic carrying case with cover. Includes high and low temperature probes and thermocouple probe. No. 4201

No.	Description
61724	Electronic Thermometer Unit with two low range probes and one high range probe
61703	Extra —50° to 100° F. Probe
61704	Extra —100° to 400° F. Probe
61766	Extra 100 to 1500° F. Thermocouple probe

DON'T WORRY IF YOU CAN'T FIND EQUIPMENT IN THIS CATALOG!

This book is devoted exclusively to Alter's extensive inventory of parts and pieces. We now publish regular seasonal supplements featuring our complete equipment line. Call 312/376-3505 or any Alter location for the most current listing.

SEE SEPARATE PRICE LIST

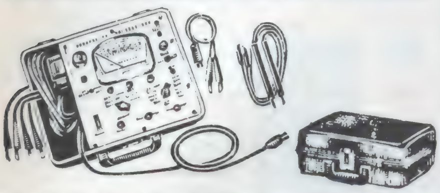


Thermal Hermetic-Check Hermetic Compressor Analyzer and Starter

This hermetic compressor testing and starting unit will check for open or grounded circuits, and will start units up to 5 HP 115V or 230V. The running amperes may be read on the ammeter. By watching the current change running capacitors may be checked by switching them in and out of the system. Neon light indicates power plug polarity. Ammeter is shunted during start to prevent damage. Protected by fusetron. Four lead test cord permanently connected. Comes with reversing switch in plastic case with hinged cover 8-1/2" x 8" x 4-1/2" with complete directions.

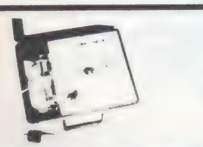
61700

Thermal Super Hermetic—Check Hermetic Compressor Analyzer and Starter



Similar to No. 61700 this Super Hermetic—Check hermetic compressor analyzer and starter has an extra heavy arc quencing starting switch. Unit will start units up to 5 HP 115/230V. Current in both start and run windings may be checked on the meter. Meter range 0-15-60 Amp. 0-150-600 Volts, 0-50000 Ohm for grounding tests and, .005 ohm for winding resistance. By matching the current change capacitors may be checked by matching them in and out of the circuit. Start switch for split phase or to select 100, 200 or 400 Mfd. starting capacitors. Neon light shows power polarity. Power line protected by 30 A Fusetron with ammeter shunted during start to prevent damage. In beautiful royal blue ABS durable light weight plastic case with removable cover and standard luggage latch and handle. Ample compartment to store the 4 test cords permanently connected, the power cord and the other test cords supplied. Case 9-3/8"x12-3/8"x4-7/8". Ready for use with complete instructions. No. 12001.

61730 Super Hermetic Check Compressor Analyzer and Starter Complete with Cords in Royal Blue Plastic Case.

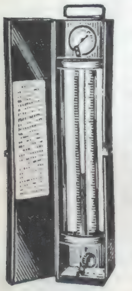


VAK-Check Thermistor Vacuum Gauge

A rugged electronic vacuum gauge powered by 2 D-cell batteries. Clear, easily read dial face reads down to 10 microns. Measures the vacuum by change in heat conduction. As vacuum gets lower, voltage applied to thermistor heats it and drops its resistance drawing more current until heat is being conducted away as fast as it is being generated. This equilibrium voltage point varies with the vacuum and is read in microns on the meter. All automatic ambient temperature compensated. Comes in royal blue plastic carrying case. Model 4501.

61767 Thermistor Vacuum Gauge
61768 Extra Sensor for Above

Thermal Charge-Check

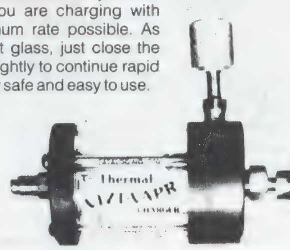


Thermal Charge-Check refrigerant charging cylinders have calibrated scales of R12 and R22 printed on waterproof vinyl. Gauge tube is glass and protected from breakage by a plastic tube. May be used without removing from carrying case that serves as a stand. The 2-1/2 lb. and 5 lb. have 0 to 500 PSI gauge with calibrated R12 and R22 scales. A temperature correction chart is printed on all scales and a R502 conversion table on the 2-1/2 lb. and 5 lb. sizes. Complete with carrying case and carrying bail handles.

No.	Thermal	Cap.	With Gauge
61726	7004	2-1/2 lb.	0-500PSI
61727	7006	5 lb.	0-500PSI
61739	7020	Heater Assembly	

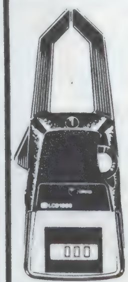
Thermal Vizi-Vapr Charger

Rapid vapor charging device—may be used with any refrigerant (including those with dyes) on any size system. Vizi-Vapr takes liquid from storage tank and changes it to a vapor in itself, so there is no temperature drop in storage cylinder. Inner is gauge glass, outer shell is tough Lexan, with dry nitrogen between, so you can actually see that you are charging with vapor at the maximum rate possible. As liquid builds in sight glass, just close the valve on Vizi-Vapr slightly to continue rapid vapor charging. Very safe and easy to use. Thermal 7701



61778

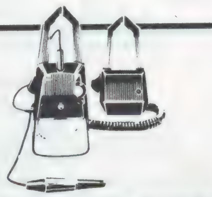
TIF LCD 1000



Clamp on volt-ohm ammeter accurately captures milli-second power surges as low as 1/10 of an amp, volt, or ohm, with ranges from 0-1000 amps, volt, ohm, and locks in peak surge current. Fits into tight corners. Fixed probe, replacement fuse, batteries and case included.

65277

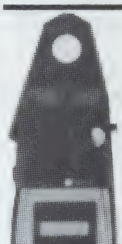
TIF 8000



Electronic hermetic compressor analyzer operates on single or three phase motors - any voltage or power. Able to analyze in 30 seconds. Will determine cause of any existing defect and can be used to check out starting torque, acid in refrigerant, insulation breakdown, mechanically frozen compressor, capacitor open/shorted, capacitor microforads, run windings, open relays etc. Comes complete with 2 clamp on jaws, each jaw being clamped around a separate input cable leading to the motor, giving instantaneous readings of torque. Incl. plug in extra current sensor, 1 pair plug in test lead, batteries.

65278

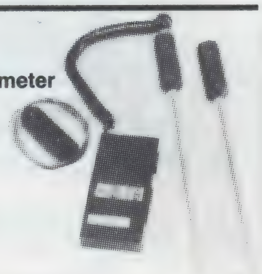
TIF 1000 DC



No connections necessary. Clamps around insulated cable. Completely portable, battery operated. Precision readings from 1-999 amps. An enormous time saver for the busy mechanic. It checks starters, alternators, generators, voltage regulators, ignition systems without disconnecting any cables. High contrast LCD readout. Low battery indicator. Easily replaceable 9 volt transistor battery in AAA cell.

65285

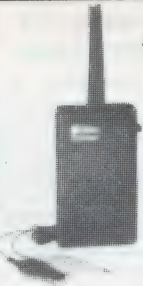
TIF 7000 AC Digital Thermometer/Pyrometer

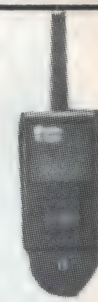


Superheat probe, surface probe, Celsius/Fahrenheit selector switch, and press to read switching features.

65287	Tif 7000 AC	-40^0 to 1995^0F
65294	Surface Probe	-40^0 to 1000^0F
65295	Air Probe	-40^0 to 300^0F

Audible Tic Tracer High and Low Voltage TIF 300CC and TIF 300HV





Entirely enclosed in plastic with no metal to make any contact, the Audible Tic Tracer has a high and low sensitivity. On high sensitivity it audibly signals the presence of voltages under 440V by tracing the conductor with the tip and voltages over 440V may be checked at a distance depending on the voltage. At this setting it may be used to check fuses without removing them from the fuse box, locate heating wires in walls, and breaks inside an insulated line. It will locate breaks in low voltage appliances, toasters, heaters, power tools, outlets, switches, conduit, etc. Switched to low sensitivity it will signal the presence of AC voltage under 2200V only when the tip touches the conductor. With voltages over 2200V the probe may be at a distance depending on the voltage. At low sensitivity the unit may check load breaker connections on high voltage transformers, transformer lines, TV high voltage, microwave ovens, and electronic air cleaners. Use the test harness to test capacitors and circuit continuity up to 25,000 ohms. Complete with 2 batteries AA.

65248H Audible Tic Tracer With Batteries No. 300 CC.

65260H TT300HV Less Test Harness Use For Higher Voltages Only With Batteries

GE Type H10B Electronic Leak Detector

Transistorized—Compact—Rugged



- **Replacement of Reference Leak.**
- **Bottle And Sensor Are Easily Accessible.**
- **Detector Is Faster & Easier To Use.**
- **3-Leak Size Setting.**
- **Large Size For 5.0 Oz. Per Year.**
- **Medium Size For 0.5 Oz. Per Year.**
- **Small Size For 0.1 Oz. Per Year.**
- **Double Alarm- Overcomes Sunlight & Noise.**
- **Light Flashes Faster & Horn Increases.**
- **Frequency As The Leak Increases.**
- **Fold Away Cover.**
- **On/Off Switch.**

The Type H10B GE leak detector uses solid-state components mounted in a tough shock resistant case. It will find leaks of a Halogen gas such as Freon refrigerants as small as ½ oz. per year. It has a fast one second response time to a leak so that you can probe at the rate of an inch a second. During the minute warm up time the air flow can be checked. The plug in sensitive element is made of platinum and has a long life. The probe filter must be clean and replaced when contaminated. The built in reference leak calibrated to leak about ½ oz. per year, has about a years supply of R11. The high-low-off sensitivity switch and the balance control knob are mounted with the reference leak on the top and are fully accessible. The H10 gives you a constant check on the critical air flow by the position of the ball float in the air stream in the clear plastic probe. After the one minute warm up time, you adjust the control knob so that the probe flashes at the rate of 1 or 2 flashes per second. Then you can check the operation by bringing the probe near the reference leak where the flashing rate will be very rapid. Then you check for leaks with the probe at about an inch per second until you find the leak. Detector should not be operated in combustible atmosphere. Has blue vinyl case 8-9/16" L. x 4-1/2" W. x 2-5/8" H. Weighs 3 lbs. GE warrants leak detectors to be free of defects in material and workmanship for one year. If within the warranty, they become inoperative from defects, at the option of GE, a no-charge repair or replacement will be made. Our Chicago headquarters are a G.E. authorized repair station for H-10B. Note: Sensors, reference leaks, and damage caused by purchaser are not covered by warranty.

All GE Leak Detectors Guaranteed For One Year

No.	Description
46630H	GE Type H 10 Leak Detect Case and Maint. Kit 110/127V 60C
46640H	GE Type H 10 Leak Detect Case and Maint. Kit. 240V 50/60C
45531	Extra Maintenance Kit.
45532	Plug In Element for H-10
45533	Reference Leak Assembly
45534	R11 Refill For Reference Leak
45535	Clear Plastic Probe Tip

SEE SEPARATE PRICE LIST



Amprobe Test Master Kit With New Extendo Leads

This is a compact kit that makes your electrical testing easier, safer, and faster giving you accurate data at low cost. Includes an RS3 Amprobe with 5 current ranges 5, 15, 40, 100 and 300 Ampere and 3 voltage ranges 150, 300 and 600V. Has an 0-2000 ohm ohmmeter with ohmmeter battery attachments less battery. Also has VLK-311 our No. 2760 extended leads and energizer A45L our No. 11684. All of these instruments in a large convenient case.

2766H Complete TM63 includes Amprobe RS3, Extended Leads No. 11684 Energizer, and Case

H-12 Leak Detector



Battery powered halogen leak detector ranges of 0.2, 0.5 and 5 oz./yr. auto zeroing circuit eliminates user calibration. Visual and audioleak alarms make identification easy. 18" probe for hard to reach places. Incl. reference leak, earphone, case and batteries.

46646

Amprobe Digital LCD Clamp Ons



Directly measures AC current, AC voltage and resistance. Provides digital readout of RMS value of the continuous mode. 12081, and 12082 are peak sensing RMS calibrated in the peak mode. High and low ranges can be changed by momentarily pressing the red button on the left side. Accuracy ±2%.

Ranges	Volts-Amps-Ohms	
12080	0 - 199.9 & 0 - 999	0 - 199.9 & 0 - 999
12081	0 - 199.9 & 0 - 300	Incl. case and DTL 3 Leads
12082	0 - 199.9 & 0 - 1999	Case and DTL 2 Lead

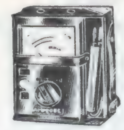
Amprobe Pocket Voltage Tester

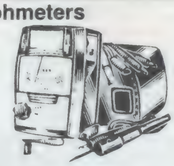


6"x2-1/4"x3/4" closed. One probe retracts into the tester, the other probe has a coiled lead that will extend 18" or 30" from probe to probe. Voltage is shown by a series of lit windows. On AC current both windows light up, and a buzz indicates the frequency. On DC only the positive side lights up. 115-550 V AC 25 to 800 cycle 115-750V DC.

No.	Description
2776	Amprobe Voltage Tester VT100
2783H	VT 124 Amprobe Volt Probe Tests Same As No. 2776 But With Additional Range of 24/48V.
2784	Case Only

Amprobe Megohmeters



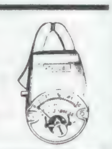


12074 H or AMB-1 **12072 H, 12073 H**

These instruments were designed to test the insulation of motor and compressor windings as well as many other applications. They will indicate possible future trouble by showing failure of insulation due to presence of moisture or other causes and thus warn of possible break downs. All models are supplied with a 20 page application manual, test leads and ever ready carrying case. Model AMB-1 is powered by eight AA batteries (not supplied). Battery life is approximately 200 test cycles of 1 minute on and four minutes off at one megohm. Model AMC-2 and AMC-3 have hand cranked voltage generators and do not require any other voltage source.

No.	Description
12074H AMB-1 Ranges	AMB-1 Megohmeter 0-100 Megohms (2.5 Megohms midscale) Test voltage 500 VDC 0-100 Ohms (4 ohms midscale) Open circuit voltage 300MV 0-600 VAC/VDC test B and, Battery OK test Supplied with fuse less Battery 4"x6-1/4"x3" approximate size.
12072H AMC-2 Ranges	AMC-2 Hand Cranked Megohmeter 0-100 Megohms (1 megohms midscale) 500 VDC 0-200 Ohms (10 Ohms midscale) 6 VDC
12073H AMC-3 Ranges	AMC-3 Hand Cranked Megohmeter 0-500 Megohms (5 megohms midscale) 10000 VD 0-200 Ohms (10 ohms midscale) 6 VDC

Amprobe Safety Yellow Junior Snap-On Volt-Ampere Tester



A snap-on ammeter and voltmeter. One hand operated tapered probe jaws with laminated cores that are completely insulated. Quality D'Arsonval movement with needle adjustment has 18/10 inches scale accurate within 3% plus or minus of full scale reading. Tests for load current, load balance, line voltage, shorts, grounds, and open lines on appliances, fuses, condensers, motors, switches and relays. When used with No. 11684 sensitizer the scale ammeter is reduced to 1/5 or 1/10th its reading. Safety type voltage test leads plug into back of the Amprobe. In safety yellow plastic case. Complete with instructions and 2 test leads. Size 4-3/4"x2-1/2"x1-3/8" thick.

No.	Amprobe	Ammeter Range	Voltmeter Range
2659H	Y25	0—25 Amp.	0—125 or 250V
2663H	Y550	0—50 Amp.	0—150 or 600V
2665H	Y500	0—100 Amp.	0—150 or 600 V
2678	Carrying Case		

Amprobe Rotary Scale Split Core Volt-Ammeter





Any one of six separate scales is brought into position under the magnifying unbreakable window by a recessed six position selector knob. Has 2 voltage ranges 150 and 600 volts and 4 current ranges 6, 15, 40 and 100 amperes. Reading error is reduced as only one extra long, easily read scale is visible at one time. Readings can be held by a pointer locking device and read away from the conductor. The probe jaws are completely insulated and have dovetailed joint. Safety test leads have bayonet lock in the bottom and have rubber protected Mueller clips with removable probe joints. Only 7-1/2" long in rugged impact proof plastic case ribbed and shaped to fit your hand. No. RS1.

No.	Description
2690H	With 6 Rotary Scales, Test Probe Leads and Vinyl Case 60 Cycle
11690H	Same as 2690H but calibrated for 50 cycle current.

Same as above but with voltage ranges of 150 and 300 volts and the same 4 current ranges. 60 Cycle No. RS2.

2692H With 6 Rotary Scales, Test Probe Leads and Vinyl Carrying Case

Amprobe Split Core With 3 Voltage-5 Ampere Rotary Scales With Ohmmeter



Has 5 current ranges 5, 15, 40, 100 and 300 ampere and 3 voltage ranges 150, 300 and 600 volts. It also has a 0-2000 ohm ohmmeter with an ohmmeter battery attachment less battery. No. RS3.

No.	Description
2693H	With 8 Rotary Scales, Test Probe Leads and Vinyl Case 60 Cycle

Same as No. 2693H but with 5 current ranges 15, 40, 100, 300 and 1000 amperes and 3 voltage ranges 150, 300 and 600 volts. It also has a 0-2000 ohm ohmmeter with an ohmmeter battery attachment less battery. No. RS1000.

2688H With 8 Rotary Scales, Test Probe, Leads and Leather Carrying Case 60 Cycle

Also available in 50 Cycle

Extra Pair Test Probe Leads

2759	Test Leads Neoprene Insulated Fit Nos. 2688, 2690, 2692 and 2693
2760	Extendo Convenient Leads with Clamp to Clamp One Lead to Jaw Fits No. 2690, 2692 and 2693
2741	Extra Probe Tips Per Pkg. of 4 Tips
2694	Extra Ohmmeter Battery Attachment Less Battery
2695	Vinyl Case For 2690H or 2693H
2768	Larger Vinyl Case For 2690H or 2693H

(No. 2768 Will Hold Amprobe Energizer and Probe Kit.)

6529 1A 250V 8AGX1 Fuse

Amprobe Industrial Analog VOM's

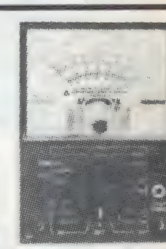


Perfect as back-up meter or on a job site where instrument might be easily lost or damaged. Small, compact, lightweight. Fuse protected or can stand momentary misapplication of up to 220V. Three color coded scale and switch plates.

Specification Ranges
Voltage: 0-150/300/600VAC (2,000 ohms/V)
0-30/150/300/600VDC (2,000 ohms/V)
Resistance: 0-5K ohms (50 ohm midscale)
0-50K ohms (500 midscale)
0-500K ohms (5K ohm midscale)
Current: 0-500uA/25mA DC
Accuracy: ±3% F.S. DC
±4% F.S. AC
Ohms ±3% of Arc
Ohmmeter Battery: One type (AA" (not supplied)
Size: 3-1/16"w x 4-3/4"h x 1-9/16"d
(7.8cm x 12.1 cm x 4cm)
Weight: 6-1/2 ozs. (184g) Supplied with test leads.

12087	Meter	**12089**	All weather leads
12088	Case	**12083**	High voltage leads

Amprobe 1A



Taut band meter movement. 4 ohmmeter ranges including sensitive 5 ohm midscale. Two millivolt ranges. High temperature capability $+70^0$ to 1200^0 F. 16 practical ranges for industrial use. 4 color coded scale plate. Molded case fully insulated. Compact and lightweight. All weather test leads.
12091

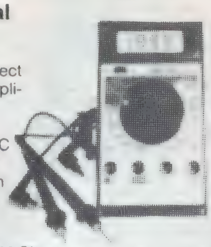
AM-2BBDP Drop Proof



Withstands a 5 ft. drop. 21 industrial ranges. Taut band meter movement. 50 uA sensitivity. 20 midscale ohmmeter. Two temperature ranges -50^0 to $+100^0$ F. and 0 to $+250^0$ F. Large and easy to read scales. 1.8 VDC battery test range. Color coded scale and switch plates. All ranges are fuse plated protected to 250V or can stand misapplication to 220V.
12090

SEE SEPARATE PRICE LIST

Amprobe AM-12 Digital Multi Meter



Fused to 600V AC/DC to help protect instrument as well as user misapplication.
Input impedance: 10M ohms.
Voltage Ranges: 0-199.9/750VAC
0-1.999/19.99/199.9/1000VDC
o-1999 mVDC 15KV AC/DC can be added with accessory high voltage probe HV-2 (not supplied)
Resistance Ranges: 0-199.9/1999 Ohms
0-19.99/199.9/1999K Ohms
Current Ranges: 0-1999 uA DC
0-19.99/199.9/1999 mA AC/DC
1-10 Amps AC/DC
Note: AC accuracy may be affected by outside interference
Accuracy: DCV: ± 0.5% of RDG ± 2 LSD
ACV: ± 1.5% of RDG ± 2 LSD

12093

Amprobe TAM-4A Industrial Multimeter Digital Test Master Kit



27 basic ranges. Accuracy + 0.8 to 1.5% of reading + 1 LSD. Sensitive 20uA/20 ohm ranges. Diode test range. Color coded range/terminal plates. Large LCD display. Reversed polarity indication. Low battery indication. Over range indication. Convenient push-button operation. Accessories and AC current, power, temperature, AC leakage and 15KVAC/DC testing capability.

12094

Amprobe Handy Pack Digital Thermometer



Accurately measures three temperatures plus A-B probe differential such as superheat, inlet/outlet temperatures. ± 1 accuracy, -30^{0}F. to 199.9^{0}F. Large LDC display. Low battery/over range indications. Rugged molded carrying case.

Range: -50.0^{0}F. to + 199.9 F.
Accuracy: ± 1^{0}F. from -30.0^{0}F. to + 199.9^{0}F.; ± 2.5^0 from -50^0 F. to -30.0^{0}F.
Digit Size: 0.4" (10mm)
Lead Length: 12 feet (3.66m)
Case Size: 9-1/2"x8-1/8"x4-1/4" (24.1cmx21.6cmx10.8cm).
Supplied with three permanently attached temperature probes (one immersion Type and two Universal Type)

12095

Amprobe Temperature Recorders Volt/Ammeter AC

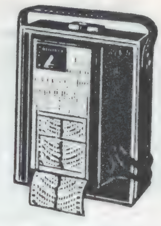


Time sharing recorder that records AC voltage and current on the same chart. It can also be set up to record just voltage or current. When set up for time sharing operation to record both voltage and current the two variables are recorded in the chart in a controlled sequence (V, A, A, A) which repeats. Two different patterns identify the two traces on the chart.

0-150/300/600 Volts Time Sharing 300 SVA
0-15/60/150/300 Amps

12096 Meter **12097** Charts

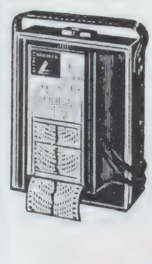
Amprobe Temperature Time Sharing Recorder



Recorder has all of the general features of the Amprobe recorder but is designed to record in sequence two temperatures in same range and on and off running time of a motor or compressor drawing between 4 to 300 ampetes. Each complete sequence takes 30 seconds at the chart speed of 12" per hour. Supplied with transducer but 2 probes of the same range must be ordered separately. Can be used to record on temperature only or as a temperature indicator. 115V60AC motor 12" per hour. All probe leads 15 ft. long. Inkless strip charts are 2-1/2" x 30 ft. Portable carrying case supplied is 7-3/8" high 6-3/4" wide 5-1/8" deep.

No.	Amprobe	Range
12070H	LT8200R	-40^0 to + 60^{0}F and -3.5^0 to + 118^0 F
For -3.5^0 F to + 118^0 F use		
11697H	RBT14	-3.5^0 to + 118^0 F
For -40^0 to 60^0 Use one of the following		
2795H	RBT12	-40^0 to + 60^0 F Universal
2796H	RBT11	-40^0 to + 60^0 F Immersion
2797H	RBT13	-40^0 to + 60^0 F Air
	Inkless Strip Charts	
11698	4060	-40^0 to + 60^0 F
11699	3118	-3.5^0 to + 118^0 F

Amprobe Miniature Precision Recorders



A compact recorder that makes a permanent record of voltage, amperes or temperature variations on an inkless pressure sensitive tape. Tape is 2-1/2" wide by 30 ft. long and moves at 12" per hour. Driven by 115V, 60C AC motor. Rolled tape easily loaded. Simple mechanism gives positive even movement. Meter and drive mechanism are sealed with Mylar for dust protection. Recording pointer is visible without the tape and unit may be used as indicating meter. Complete with hook-up leads and one strip chart and full directions in a vinyl case with removable cover. Ammeters include clamp on transducers.

Temperature Recorders

2608H	LT8100	-50^0 to 100^0 F, + 50^0 to 250^0 F

Extra Resistance Bulb Thermometers

2716 FLRBT3 LT8100 1" Bulb 12 Ft. Lead
This replaces "FLRBT-1 & 2"

Inkless Strip Recording Charts 2-1/2" x 30 Ft.

No.	Amprobe	For Ammeter Models
2709	850A	LAA82, LAVA82, 83
No.	Amprobe	For Voltmeters
2711	830AV600	LAV8600, FAV8600, PAV8600
2718	835X3A	LAV2X-3X, LAVA82, 83
No.	Amprobe	For Temperature
2712	823T1	LT8100 (-50^0 to 100^0 F)
2713	833T2	LT8100 (+ 50^0 to 250^0 F)

Recording AC Ammeters

No.	Amprobe	Range
2727H	LAA82	0 to 5/25/100/250 Amp

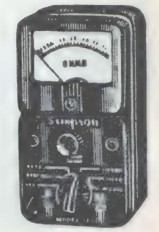
Recording AC Voltmeters

2730H	LAV8600	0 to 150/300/600V

Recording AC Volt-Ammeters

2719H	LAVA82	95 to 130V and 190 to 260V 0 to 5/25/100/250 Amp
2787H	LAVA83	95 to 130V, 190 to 260V and 380 to 520V 0 to 10/50/250/500 Amp

Simpson Ohmmeter Model 372-2



A complete self-contained ohmmeter with batteries, with six ranges to give a reading from 0.2 ohms to 50 megohms. Wire wound and matched metallized resistors are used throughout to give a basic sensitivity of 85 micro amperes. Clearly marked engraved front panel with range selector knob. In bakelite case 3"x5-7/8"x2-1/2". Complete with test leads, batteries and operator's manual.

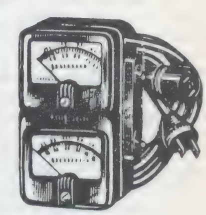
11611

Very Low Range Ohmmeter Model 362

The same as No. 11611 except with low ohm scales of 5 to 25 ohms. Spread out scale allows accurate reading and checking motor armatures and fields, shorts between windings and ground, etc. Complete with test lead calibrated to this meter and battery. Used to show terminals of start and run windings. Lowest ohm readings is from common to run; medium from common to start; and highest from start to run.

11618

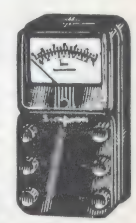
Simpson AC-DC Volt Wattmeter Model 392



Small compact dual motor AC-DC volt-wattmeter for motor and appliance testing with 2 voltage ranges 130V and 260V AC-DC and 2 wattage ranges 1000W and 5000W with full size 3" scales. Tests power consumption of all types of home appliances and permits reading of voltage wattmeters at the same time. Ranges selected by separate toggle switches. Has built-in cord and plug and compact bakelite case 3"x5-7/8"x2-1/2". With operation manual and battery. Model 392.

11609

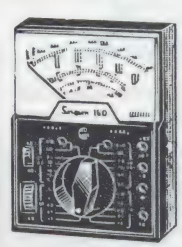
Simpson Millivolt Meter Model 387



This millivolt meter in the familiar compact Simpson molded case is designed to check the millivolt output of safety thermocouples such as are used in gas fired appliances and equipment. It has a low current draw of 750 microamperes which is calibrated to + or —2% of full scale. Has 5 ranges of 10, 30, 100, 300 and 1000 millivolts. It is accurate within 3% of full scale at room temperatures of 50^0 to 120^0 F. In molded black bakelite case 3"x5-7/8"x2-1/2". Complete with leads, battery and instructions.

11614

Simpson Model 160 Handi VOM



This small VOM is 3-5/16" wide 4-9/16" high and 1-3/4" deep and weighs only 12 ounces. Small but accurate and sensitive with a self shielding Taut Band movement that is varistor protected from even 200000% overloads. Has 3" scale. Capacity 1/4, 1, 2-1/2, 10, 50, 250, 500 and 1000V DC and 2-1/2, 10, 50, 250, 500 and 1000V AC. Measures to 50DC microamperes and 1, 10, 100, 250, 500 DC milliamperes. dB scales (1 in W into 600 ohms) —20 to + 10; —8 to + 22; + 6 to + 36; + 20 to + 50. Measures resistance RX1 (with 30 ohm center scale). RX10, RX100, RX1000 and RX10000. Accuracy DC 2% and AC 3% both ± full scale. Sensitivity 20000 ohm volt DC and 5000 ohm volt AC. Amp Clamp No. 11637H used with adapter plug No. 11639 may be used with this meter to measure up to 250 amperes in six ranges with readout on 2.5V AC scale. Complete with batteries, test leads and operator's manual.

11710

SEE SEPARATE PRICE LIST

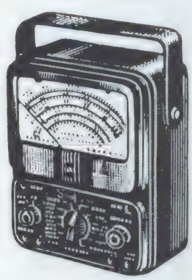


Simpson 470 Digital LCD AC/DC VOM Meter

Simpson 470 has a full measurement capability of AC/DC Voltage and Current plus Ohms. DC Voltage ranges from 200mV to 1000V with an accuracy of ±.15% of input plus 1 count. AC Voltage ranges from 200mV to 750V accurate to ±1.0% of input plus 5 counts; except 3% plus 5 counts on 500Hz to 1kHz. Resistance ranges from 200 ohms to 20 megohms accurate to ±.5% of input plus 2 counts; except ±2% of input plus 2 counts on 20 milli-ohms. DC Current ranges from 2mA to 10A ±1% of input plus 1 count; except ±2% plus 1 count on 2000mA and 10A ranges. AC Current ranges from 2mA to 10mA accurate to ±2% plus 5 counts; except ±3% plus 5 on 2000mA and 10A ranges. Has a wide range Temp./Humidity operating range to 55° C. at 70% up to 90% humidity at 35° C. Has audible tone, built-in tilt stand, U.L. recognized test leads. Requires 9V alkaline battery for 200 hours of use. 3-1/2 digit, 7 segment LCD.

11659

Simpson 260 AC-DC Volt-Ohm-Milliameter



This rugged dependable 260 series of meters includes the No. 255 and 270-3 models. The 50 microampere movement is self-shielding and shockproof and known for its accuracy and repeatability. Varistor protects the movement from even 200000% overloads and a replaceable 1 amp fuse guards the input circuit. Battery operated portable in bakelite case 5-1/4"x7"x3-1/8". They have a 4.2 inch long scale. All figures are molded into the bakelite panel and filled with a durable white marking. Complete with operator's manual and No. 07500 test leads and batteries. Weight about 3-1/2 lbs.

Scales Read from 0 For Clarity — We Omit 0 From Table

Ranges	Model 260-6, -6P
DC	.25, 2.5, 10, 50, 250, 500, 1000
AC	.25, 1.0, 10, 50, 250, 500, 1000
DC Microamperes	0-50 (250 MV Drop)
DC Milliampere	1, 10, 100, 500
DC Amperes	10 (250 MV Drop)
dB Scales IMW into 600 Ohm	—20 to +10, —8 to +22, +6 to +36, +20 to +50
Output Range	.1 Mfd. capacitor in series with all AC voltage range thru 250V

Resistance All Meters

Range Scale	RX100-200000 Ohm
Center Scale	120000 Ohm

Accuracies Are Shown Plus or Minus of Full Scale Reading

Ranges	Model 260-6, 260-P, 260XL
0-50MV 0-250MV	0-50 Microamperes 1.5%
0-2.5 to 0-1000VDC 2%	o-1MA to 0-10 ADC 2%
0-5000VDC	0-2.5 to 0-10000VAC 3%

Accuracies Are Shown Plus or Minus Degrees of Arc

RX1	2.5°
RX100, RX10000	2.0°

Model 260-7

Probably the most popular multi-purpose tester. Rugged, durable and accurate with meter movement protection. Complete with operating manual, No. 07500 test leads and battery. Has transit position on switch to conserve batteries when not in use.

11655H Multi-Purpose Tester

11751 Same as above but with shatterproof case. Model 260XL
11763 Roll Top Case for 260 Series Meters 00248

Model 260-7P Goof Proof VOM

Same as No. 11655H but protected by an overload with manual reset. Cannot be reset while overload is present. All ranges are protected except 1000V DC and 10 Amp DC.

11657H Model 260-6P VOM Complete
11658H Same in Roll Top Protective Case Complete

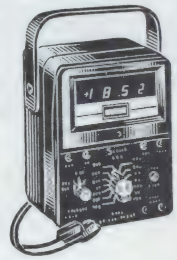
With Safety Roll Top Cover Closed



Same as No. 11655 but mounted in a heavy molded bakelite safety case with a roll top front and built-in compartment for testing leads that fully protects the meter yet leaves it always ready for use. Model 260-6RT.

11656

Simpson 360 Portable Digital Volt — Ohm — Milliameter



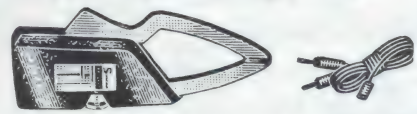
This small compact portable volt-ohm-milliameter that displays the reading in .33" high non-blinking digits from light emitting diode (LED). Called 3-1/2 digits because when 4 digits are displayed the first digit is only 1 and the highest reading is 1999. The decimal point will match the range. A high quality instrument with 29 popular ranges including "low power" ohms that measures AC and DC current, voltage and conventional and "low power" ohmic resistance. Solid state IC design gives high reliability with "low power" dissipation in a compact unit. Operates in temperatures from 0° to 50° C. and has exceptional over-range capability. Operates on 117 or 234VAC 50 to 400 Hz. or 4 nickel-cadmium "C" size rechargeable cells (not supplied) either GE No. GCT1.5SB or Eveready CH1.8. Batteries will operate unit about 5 hours and recharge in about 16 hours. Batteries must be purchased separately.

Accuracy in Percentage +1 Digit Except Where Shown in Parenthesis

Scale	Nominal Range	Percentage Accuracy
DC Volts	0.2, 2, 20, 200 and 1000 Volts	±0.25
AC Volts	0.2, 2, 20, 200 and 600 Volts	±0.50
DC Current	20 and 200 MicroAmps and 2, 20 and 200 MilliAmps	±0.50
	Also 2 and 10 Amp (Accuracy 2 Digit + ±1.00)	
AC Current	200 MicroAmps and 2, 20 and MilliAmps	±1.00
	Also 2 and 10 Amp (Accuracy 2 Digit + ±2.00)	
Resistant	200 Ohm and 2 Kili Ohm Low Power MaxVoltage 150 MilliVolt (Accuracy 2 Digit + ±0.70) 20 and 200 Ohms and 2 MegOhms 20 MegOhm (Accuracy 2 Digit + ±1.00)	±0.50

No.	Description
11746	Simpson Model 360 For 60C
11748	Same as above but for 50 Cycle Carrying Case For Above

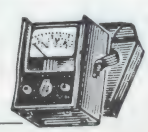
Simpson Amp-Clamp Plug In Adapter



This clamp-on AC ammeter adapter will plug into Simpson Models 260, 261, 270, 250 or 255 VOM or used with any VOM with a 0 to 2.5V AC scale. Ranges are 5, 10, 25, 50, 100, 250 Amp AC with readout on 0 to 2.5V AC scale. Allows measurement without breaking circuit being tested.

No.	Description
11637H	Model 150 Amp Clamp
11638	00548 Carrying Case

Extra Carrying Cases For Simpson Meters



No.	For Models
11638	150 Amp Clamp Case
11640	160 Handi VOM
11616	229, 260, 261, 270 and 260 VOM
11603	263, 269, 388-3L, 389-3L Ever-Redy
11610	392 Leatherette Cover
11606	230, 362, 372, 390 Ever-Redy Leather
11763	Roll Top Case for 260 Series Meters 00248
21852	230, 362, 372, 390 Ev-Red Leatherette

Extra Test Leads

No.	For Model Type	No.
11622	229, 255, 260 Series 3, 4, 5, 263, 269-3, 270 Alligator	07500
11623	Same No. 11622 Probe Tip	07538
11645	Same No. 11622 Comb Probe Tip With Removable Clip	00115
11624	230, 260-1 260-2, 372 Probe Tip	08381
11649	230, 260-1 260-2, 372 Alligator Clip	08375
11766	Leads for 260-7	00043
21851	390 Test Cord Assembly	08418

HACO Multitester 18 Range



Features:

- Temperature readout from —40° to 300° F
- Banana plugs for positive contact
- Two terminals for all ranges

Precise, versatile, rugged; measures AC and DC volts, millivolts, ohms, milliamps, even temperature. Rotary switch selects all 18 ranges. Fuse protected in all ohm modes; diode-protected, shock-resistant movement. Colored scales. High impact. ABS plastic case. Supplied with leads, instructions and 2 "AA" alkaline batteries. Accuracy +3% or 4% of full scale.

Reading	Ranges		Sensitivity
AC Volts	10, 50, 250, 500, 1000		10,000 ohms/volt
DC Volts	.05, 1.25, 10, 50, 250, 1000		20,000 ohms/volt
DC Current	0.05, 25,250 Milliamps		
Ohms	R x 1	R x 10	R x 100
Ranges	0-500	0-5,000	0-50,000
Midscale	12	120	1,200

Temperature ranges from —40° to 300° F. with optional accessory probe listed below.

No.	Description
11791	HACO Multitester with leads, batteries and instructions
	Accessories
11798	Carrying Case for Multitester
11792	Temperature Probe, 38" Long
11796	Extra Leads, per pair
11797	Spare Fuse, 1/4 amp, AGC

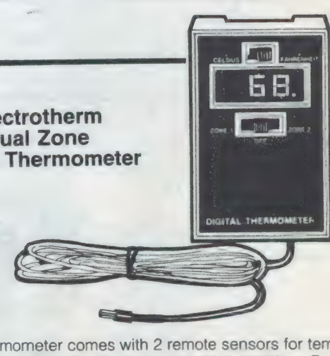
Digital Capacitor Tester



A Solid State battery operated pocket size digital capacitor tester with a light emitting diode. Readout that provides the exact capacitor value on run, start and DC electrolytic from 0 to 10,000 MFD. Also checks continuity in fuses, transformers, motors and circuits. Has built-in leads with alligator clips and single button activator control. Comes in a tough plastic case. Dimensions: 4-1/4" high x 2-5/8" wide x 1-3/8" deep. (4) AA 1/5 V batteries not included.

60548

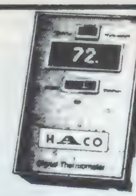
Electrotherm Dual Zone Digital Thermometer



Digital thermometer comes with 2 remote sensors for temperature readings of 2 locations from a third location. Features Celsius to Fahrenheit switch, 12 ft. cables for each sensor, low battery indication, solid state construction and easy to read .3" high LED display. Readout is fast and accurate. Range: 32° F. to 230° F. (0° C. to 110° C.) ± 1° F. or C. Requires 9 volt battery (not included).

13795

SEE SEPARATE PRICE LIST

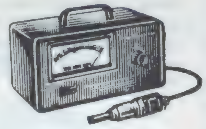


HACO Electronic Digital Thermometer

In two models — one an indoor/outdoor thermometer — the other a test instrument that monitors and displays operating conditions at two locations — as at the inlet and outlet of an evaporator coil — and can also serve as an indoor/outdoor unit. Both models are micro computers that sense and display temperatures in large, bright, blinking red LED digits. Convert from Fahrenheit to Celsius quickly, at the flip of a switch. Ultra-sensitive thermistors monitor readings. In the simpler model, an in-the-case thermistor reacts to in-the-room temperatures, while a probe at the end of a 12-foot cable registers outdoor readings. In the advanced model, each thermistor probe is at the end of a 12-foot cable, so that the instrument displays conditions at two widely separate locations, as inside or outside of a boiler room, tunnel, office. Plastic, burnished gold and tan. Range: —31° to +122° F. and —35° to +50° C. Three-digit display. Accuracy ±1 Digit. Low battery warning indicator. One year limited warranty. 9 volt battery not included, thermistors and instructions.

No.	Description
13780	HACO Indoor/Outdoor Digital Thermometer, single cable
13781	HACO Dual Cable Digital Display Thermometer

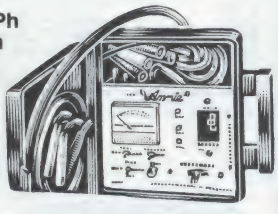
Kinney KTG Vacuum Thermocouple Gauge



The Kinney vacuum thermocoupole gauge uses a printed circuit wiring and transistorized control circuit. The range is from 1 to 3000 microns. The gauge control is precalibrated and all gauge tubes are matched avoiding resetting circuit valves or getting specially matched tubes. Response to pressure changes are 1/2 second or less. Accurage to about ±10% at 50 microns. Gauge tube has standard octal base and 1/8" IPT nipple. 5-3/4" high 9-1/8" wide and 5-1/2" deep with 8 ft. cord. Power supply 94 to 140V 50/ 60C. Gauges with 1, 2, 3, or 6 plugs may be used with 1, 2 3, or 6 cords and tubes and each station switches to the gauge separately.

91065H

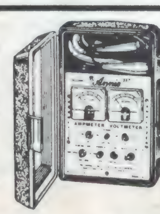
"Annie" Multi-Phase Hermetic Unit Analyzer To 7½ HP Single Ph or 15 HP 3 Ph



Extra heavy duty switch to manually start, reverse and run hermetic units up to 7-1/2 HSP or 15 HP3P. Stuck or frozen units can be rocked free. Identifies hermetic terminals for start, run and common and tests winding resistance, shorts, opens, continuity and grounds. A bank of starting capacitors covers starting range for capacity start motors. Test leads will connect run capacitors if needed. Mounted in polyethylene case 12" x 12" x 5-1/ 2". Complete with 6-1/ 2 ft. 4 wire power cord, 60 Amp. main breaker to protect unit, 0-200 ohmmeter with 7 ohm. mid scale, 4 test leads 4 ft. long. 110-277 volts, 50/60 Hz. with SP or 3P Capacity. Has 3 capacitator ranges covering 55 to 350 Mfd. Uses standard "D" cells. Model A-20.

16287

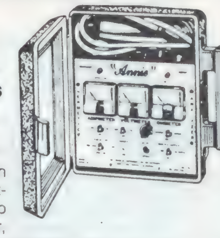
"Annie" Hermetic Analyzer to 3 HP with Ammeter and Voltmeter



Analyzer a dual voltmeter with 0—175V and O—350V range, and an ammeter with 0—25 Amp scale. Has built-in capacitor tester for direct reading on the meter scale to 550 Mfd. Panel mounted circuit breaker and 240V adapter cord. For hermetic compressors to 3 HP, 110—277V, 60 Hz. Model A-3. Available on request for 240V, 50 Hz.

16293H

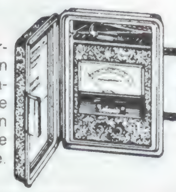
"Annie" Hermetic Analyzer With Voltmeter 0-350 VAC Ammeter 0—25 Amps Ohmmeter ½ to 200 Ohms



Similar to No. 16293 but with three meters. Ammeter, Voltmeter and Ohmmeter. Also usable as capacitor Analyzer, 0—500 Mfd. Battery operated ohmmeter has a range of 1/2 to 200 ohms. In addition to all the other features you can check potential relays and read the pick up and drop out voltage. Complete in carrying case with cover. Model A-12. Capacity to 3 HP;110/277 VAC.

16294H

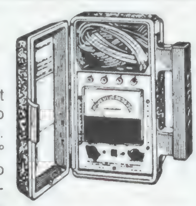
"Annie" Hi-Temp Thermocouple Probe Pyrometer



Has 4" meter with 0 to 1200°F temperature range. Probes may be used in self cleaning ovens. Probes are detachable and may be used for multiple readings. To eliminate waiting for oven to cool down use 3 ft. disposable probes. With case and 4 ft. probe. Model A15.

No.	Description
16297	Hi-Temp Indicating Pyrometer
16298	Extra 4 ft. Standard Probe
16299	Extra 3 ft. Disposable Probe

"Annie" Dual Range Temperature Analyzer



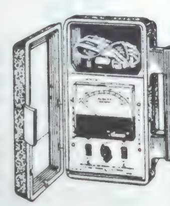
"Annie" dual range temperature unit has —50° to 100°F and 100°to 250°F scales with a selector switch. Probes cover entire range of —50° to +250°F. Thermistor controlled to read 4 input jacks, measure temperature in 4 different locations. Graduations are 2 °F with accuracy between 0° to 200°F at 2°F and balance of range 3°F. Uses standard "C" batteries with polyethylene carrying case and 2 probes. Model A8.

No.	Temperature
16254H	Dual Range —50° to 250°F

Extra Probes

No.	Mfg. No.	Description
16255	P1	15 ft. General Probe
16256	P2	30 ft. General Probe
16257	P3	15 ft. Air Probe

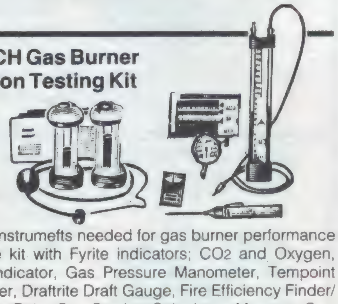
"Annie" Vacuum Analyzer



The "Annie" Vacuum Analyzer has a 4" gauge that reads from atmosphere down to 10 microns. The graduations are in inches, millimeters, and microns. Uses standard "D" batteries. Has accurate bridge circuit and temperature compensated control and meter adjustment. Rugged brass probe with disconnectable cable. Model A14.

16289

BACHRACH Gas Burner Combustion Testing Kit



Kit contains all instrumefts needed for gas burner performance tests. Complete kit with Fyrite indicators; CO_2 and Oxygen, Monoxor CO Indicator, Gas Pressure Manometer, Tempoint Dial Thermometer, Draftrite Draft Gauge, Fire Efficiency Finder/ Stack Loss Slide Rule, Gas Service Calculator, Monoxor Carbon Monoxide Detector, Sampling Tube, Moisture Absorption Material, Sampling Hose Assembly all in attractive plastic case with Lock and Carrying Handle.

70953

Fyrite Combustion Testing Utility Kit

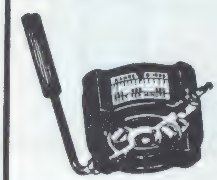


Kit includes No. 70908 CO_2 indicator, No. 70914 Temprite dial thermometer for stack temperature. Model MZF draft gauge and smoke tester with smoke scale and with filter strips. Has No. 70924 fire efficiency finder slide rule. All packed in plastic case with compartments with handle and snap lock.

70904

Florite Air Velocity Meter

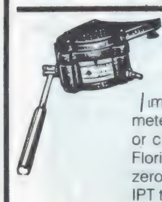
Supplied in Leather Case



A direct reading compact, easy to use air velocity meter for field use in heating, cooling, air conditioning and industrial use. Readings are made by holding the Florite so that the air stream blows directly against the meter. Magnetic damping steadies the scale movement leveling out minor variations. Range 0 to 1000 ft. per minute. Has an extension handle to fold in position and a scale lock to retain the reading.

No.	Scale	Range
70915	Single	0 to 1000 Ft. Per Min.
70927	Double	0 to 3000 Ft. Per Min. and 0 to 35 Miles Per Hour

Florite Air Velocity Meter With Air Scoop



Same construction and operation as No. 70915 meter with an air scoop inlet shaped to fit square or circular ceiling diffuser. Has all of the other Florite features such as steady scale movement zero adjustment, scale lock and handle with 1/8" IPT thread to use extension. Range 0 to 2500 ft. per minute.

70928

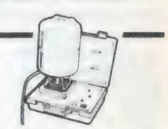
Draftrite Gauge



A handy inexpensive draft gauge. Connected to the draft point by a 5" sectional metal tube screwed into the back of the gauge. Range 0.14" updraft and 0.10" downdraft. In leatherette case.

70913

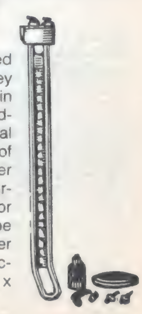
TIF 9000 Electronic Charging Meter



Charging meter uses 30 lb. tank to dispense refrigerant into A/ C system from 1/2 oz. to 35 lbs. with meter reading similar to gas pumps, but in pounds and ounces. Replaces charging cylinder, saving continuous refill time and calculations from volume to weight of different refrigerants. Has accuracy of 1/2 oz. Made of heavy welded steel. No dial or correction scales, works equally for all types of refrigerant. Easy to read 5 digit LCD meter. Large tank will not eaisly "freeze-up" and slow down the flow of liquid or gas into the system. Rugged and safe, includes 6"C" cell batteries. Can also be used as weight scale by touch of a button to weigh refrigerant left in tank.

65257

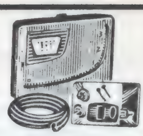
Dwyer Slack Tube Manometer Gas Pressure Kit



These slack tube manometers have molded nylon leak proof tubing connections. They open or close in one turn. Connections are in clear plastic head 2-1/4" x 1-3/4" x 1". Molded plastic tubing and web hold the metal scale 8"-0-8" reading pressures up to 16" of water. Magniclips on back of manometer allow it to be mounted against any metal surface. Kit includes a bottle of green color concentrate, two 1/8" IPT to 1/4" female pipe bushing, 3 ft. of 3/16" tubing, and one rubber tubing adapter to fit 7/16" OD spud. Instructions included. With metal carrying case 9" x 4-1/2" x 2-1/4". Dwyer No. 1212.

70616

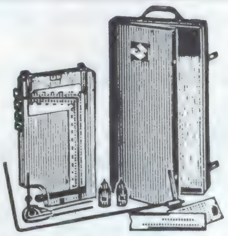
Dwyer Flexible Tube Manometer



A low cost stationary manometer for mounting on a wood or metal surface. For use as a draft gauge, static pressure indicator, or as an air filter gauge. Has range of 0 to 3" of water. Bottom part of scale is inclined to make wide divisions and make it easily read. In plastic case with 5 ft. of flexible double column plastic tubing and 2 connector fittings for 1/ 8" pipe thread and gauge oil. 7-1/2" long, 6-3/4" high by 1-1/16".

70612

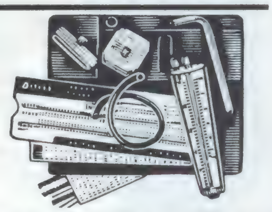
Dwyer Static and Air Velocity Meter Complete Kit



Combines an inclined and vertical manometer in a solid transparent plastic block 15-3/4" high, 9-1/2" long by 1". Inclined scale 1 to 1" in .01" div. with vertical scale 1 to 10" in. .10" div. Direct readings without reference to graphs or charts. Velocity readings in red range 400 to 12600 FPM and static pressure readings in black range 0 to 10". Has leak proof molded nylon tubing connectors. Sets up in a minimum of time. Equipped with 18" stainless steel calibrated pilot tube with accurate static holes. Heat resistant to 800°F. Includes rubber tubing with connections, magniclips for mounting panel, red gauge oil and plastic laminated instruction card, complete in a steel carrying case 10-1/4" W 20-1/4" by 1-1/2". With hinged top, locks, slide hasp and carrying handle. The Dwyer slide rule computes air velocity quickly and compensates for varying temperature and pressures.

70609

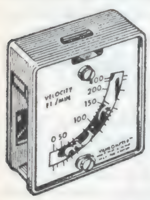
Dwyer Pocket Size Air Velocity Meter



A case with a low air velocity scale from 300 to 1200 FPM and a high velocity scale from 1000 to 4000 FPM. Readings are read directly in FPM on the scale, shown by the height of the ball. Special adapters for readings taken on furnace drafts, supply grilles and return grilles. Complete with all parts in a pocket size plastic case with instruction card and air velocity calculator.

70611

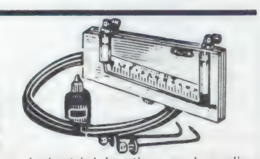
Dwyer Vaneometer® Air Velocity Meter



For quick, easy measurement of air speeds from 25 to 400 ft. per min. Helps you conform to requirements of OSHA, EPA and other safety/health agencies. Verifies speed of air flow 25 to 400 FPM through ductwork, registers, ventilators, diffusers, spray booths, lab or kitchen exhaust hoods, etc. — wherever controlled movement of air is critical. Meter is portable, lightweight, compact, convenient to carry wherever needed for spot checks. For continuous monitoring, can be permanently mounted with bracket, bolts and hardware (included). Accuracy: ±20FPM from 0 to 100FPM, and ±40FPM from 100 to 400FPM. Made of tough, white ABS plastic. Brushed aluminum scale. Built-in bubble level assures reading accuracy. Size: 4"W x 4"H x 1-1/2"D. Shipping weight, approx. 14 oz. Supplied with 2 polyester vanes and instructions.

70646

Dwyer Air Filter Gauge



Similar in construction to the static pressure gauges but designed to give a continuous accurate check of filter efficiency on industrial heating and cooling systems. Simple permanent installation giving accurate visible proof of the conditions of the filter. Scale 5-1/2" long with .10—0—1.0" in 0.2" divisions. Size 8-1/2" x 4" x 1" overall. With two 5-ft. lengths of 1/4" aluminum tubing, 2 static pressure tips, toggle bolt mounting, red gauge oil and complete instructions.

70613

Dwyer Magnehelic Pressure Gauges

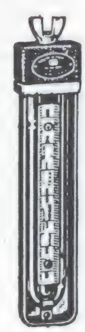


Dwyer magnehelic pressure gauges have two compartments separated by a flexible diaphragm linked to a leaf spring with a horseshoe magnet at the unsupported end. A helix strip mounted on sapphire bearings aligns itself in the magnetic field to the moving magnet without being in contact with the magnet. An aluminum pointer attached to the helix registers the pressure on the gauge. The dial face is 4" diameter with the scale clearly marked in black about 3-1/4" long. These precision instruments are carefully calibrated and do not require lubrication or periodic servicing. Accuracy is 2% of full scale over the full range at 70°F. These rugged and dependable gauges have plastic faces and die cast aluminum cases in dark gray hammeroid finish. Two pair of 1/8" IPT pressure taps for side and back connections.

4" Magnehelic Pressure Gauge Only

No.	Pressure Range
70635	0 to 1.0 inches of water
70636	0 to 2.0 inches of water
70637	0 to 6.0 inches of water
70638	0 to 15.0 inches of water
70639	Air Filter Gauge Adapter Kit With 2-5 Ft. 1/4" Aluminum Tubes, Compression Fittings, 2 Static Pressure Tips and Plate
70640	Portable Plastic Carrying Case With 9 Ft. 3/16" ID Rubber Tube, Accessories, and 2 Static Tips.

Meriam "U" Tube Manometer



Reads in absolute pressure in millimeters or tenths of an inch. One side of the "U" tube is open for connection to the measured pressure. The other side is sealed completely, evacuated and filled with dry, Hi-purity air free mercury. A restriction in the lower right leg protects the tube against surges. A unique tube seal closes this tube for shipment or handling. Has removable head. Tube is protected on three sides by rigid cast aluminum body with scale mounted in the middle. Maximum operating pressure 100 P.S.I. With 1/4" FIPT connection, and inch scale.

No.	Description
49473	With Inch Scale 5" long
49475	Replacement "U" Tube Only
49474	Interchangeable Scale for 127 Millimeters

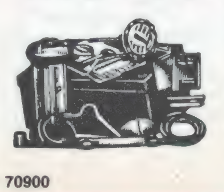
Fyrite CO_2 Indicator In Sturdy Instrument Case



The Fyrite CO_2 indicator is a modern efficient instrument to test the percentage of CO_2 in the flue gas to check for highest combustion efficiency. It is accurate to 1/2 of 1% CO_2. A complete check takes a minute and requires no special training. The CO_2 absorbing fluid in the tester is good for 300 readings. Complete with sampling tube, asperator bulb, rubber tube and Fire Efficiency Finder stack loss slide rule all in a sturdy instrument case.

No.	Description
70908	CO_2 Indicator Complete
70909	CO_2 Absorbing Fluid With 3 Refills In Separate Bottles
70910	CO_2 Refill Package With 2 Bottles of Refill Fluid, Gaskets, Screws and Filtering Material
70911	CO_2 Repair Package With Bottle of Fluid Refill, Valve Gasket, Top Gaskets, Diaphragm, Screws and Filtering Material

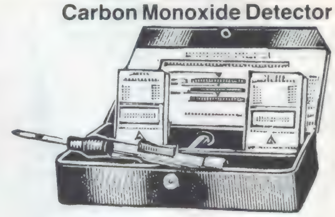
Fyrite Combustion Testing Service Kit



A complete combustion testing kit including the Fyrite CO_2 indicator for the flue gas analysis, the Draftrite draft gauge and the Tempoint dial thermometer and a "Fire Efficiency Finder" stack loss slide rule all packed in a metal carrying case with compartments for all the parts.

70900

Bacharach Monoxor Carbon Monoxide Detector



Instantly reveals presence of Carbon Monoxide

Model 19-7021 Detector provides an inexpensive and dependable means of showing if carbon monoxide is present in dangerous quantities. Fast and simple to use, an air sample is drawn through a detector tube containing an indicating gel. If a stain forms after one pump stroke, the CO concentration is 300 ppm, or higher, therefore dangerous. A stain after two pump strokes shows a CO concentration of 100 to 300 ppm. This indicates area is unsafe. If no stain appears after two pump strokes this indicates the CO is less than 100 ppm and the area is safe. Monoxor CO Detector tubes are very inexpensive to use. If the gel is only partially stained, the tube may be reversed and used for a second test. The pen-shaped pump is provided with a clip for carrying in the pocket. Complete with pump, two cartons of 12 indicator tubes and durable carrying case.

No.	Description
70951	Carbon Monoxide Detector Kit
70952	Model 195005 Same as above plus Flue Gas Sampling Assembly
70956	Carton of 12 Indicator Tubes

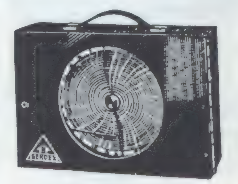
Stewart Warner Tachometer



A portable hand speed indicator that will give you a direct RPM reading of any rotating speed up to 4000 RPM. Only 2-3/4" in diameter and 4" long. Has two dial faces, one for CW rotation and one for CCW rotation. Large figures for easy reading. Accurate and dependable. Complete with two tips.

No.	Description
11373	Complete Tachometer
11374	Cone for Centered Shaft
11375	Cup for Convex or Flat Shaft

Serdex Relative Humidity and Temperature Recorder



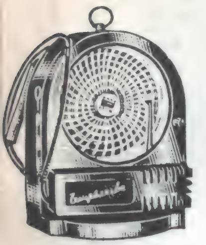
This relative humidity recorder uses the same sensitive humidity indicating mechanism used in the humidity recorder. Accurate and with a fast reaction to humidity changes. The recorder is completely self-contained with a spring wound chart drive. Recorders for 24 hours have 15 minute divisions, those for 7 days have 3 hour divisions. The relative humidity range is 0 to 100% and 0 to 100° F. temperature range. 100 charts 6" diameter and bottle of red and purple ink.

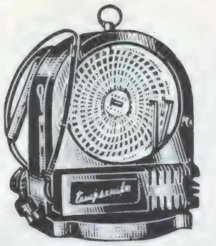
No.	Time		Div.	Div.
70943H	24 Hr.	15 Min.	2%	2%
70944H	7 Day	3 Hr.	5%	5%

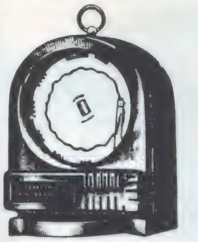
No.	For	Time
70947	70943	24 Hour
70948	70944	7 Day
70949	Bottle of Purple Ink	
70950	Bottle of Red Ink	

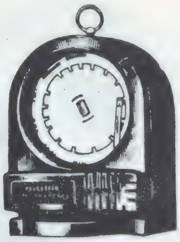
SEE SEPARATE PRICE LIST

Tempscribe Recording Instruments


A
Remote Temperature


B
Remote Temperature And On & Off


C
Temperature


D
On and Off

Clock Case and Door Assemblies Are Sold Separately — Illustrated Above As Complete

Easy to use, accurate, rugged and dependable instruments. Give a complete picture of the temperature conditions or operation over a 24 hour period at a low cost. The clock case has a 36 hour standard clock movement wound and regulated from the rear without opening the case. Die cut 4" charts for 24 hours are self-centering and easily changed. The clock mechanism is completely enclosed in the clock case, which holds the ink and 50 charts. The temperature and operation mechanisms are mounted in the door. When the door is open, the pen operating mechanism swings out of the way. Nickel silver pen of open type, easy to fill and clean. The Tempscribe recorder doors are completely interchangeable with any door having a different temperature range or an On-and-Off recoder door. One clock case and different temperature and On-and-Off doors will give a complete range of desired recordings. Non-breakable face gives full view of recording chart. Bakelite case 5-1/2"x4-1/2"x7-1/2" high with nickel plated metal parts and rustproof. Clock case and doors sold separately.

A Tempscribe Temperature Remote Door Assembly

These interchangeable doors fit the standard Tempscribe clock case and have a 6 ft. capillary element with temperature sensitive 1/2x3-3/4" bulb. Range —30° to +50° F. Flexible capillary tubing .0777 OD is small enough to fit under door gasket so that unit being tested may be run under operating conditions with recording chart visible outside. Pen may be adjusted to conform to test thermometer by adjusting screw. Charts are quickly changed as pen mechanism opens with the door and swings completely out of the way. Interchangeable with other Tempscribe temperature or On and Off recorder doors. Rotates Once Each 24 Hours.

Interchangeable Tempscribe Door Assembly Only For External Reading. Temperature Recorder

No.	Range
21597	—30° to +50° F.
21815	+10° to +90° F.
21816	+50° to +130° F.

Interchangeable Clock Case Only With Ink

21814 Rotates Once Each 24 Hours
Select Door and Clock Case to make complete unit

B Tempscribe Combination Temperature And On-And-Off Remote Door Assemblies

These interchangeable door assemblies fit the standard Tempscribe clock case and have a 6 ft. capillary element with a 1/2"x3-3/4" bulb. They also have a connection to check the running and idle time. Both temperature and running time are shown on the chart, synchronized for easy, accurate comparison. Rotates Once Each 24 Hours.

No.	—30° to +50° F. Temperature Range
21811	Series Operated 25 to 60C AC/DC 110/230V. 3 to 7 Amp Continuous Load (20 Amp Momentary In Rush) With series break in plug.
21813	Parallel Operated Any Load AC/ DC 25 to 60C 115/230V With alligator clips.

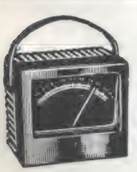
Interchangeable Clock Case Only With Ink

21814 Rotates Once Each 24 Hours

Extra Recording Charts

21831 —30° to +50° F. Range

Serdex Relative Humidity Indicator



A precise direct reading relative humidity indicator in a small black plastic case with a 3-1/2" scale from 0 to 100% RH. A circular diaphragm of hygroscopic animal membrane is mounted in an aluminum ring. The indicating mechanism is directly connected to the center of the membrane. Changes in relative humidity cause a proportional change in the tension of the diaphragm and directly shows on the meter. The response to humidity change is fast. Accurate 1.5% RH in the range of 15% to 95% RH and at temperatures of 32° F. to 130° F.

70940H

C Tempscribe Temperature Self Contained Door Assemblies

Self-contained door assemblies have the temperature mechanism in the door, therefore the complete recorder is placed inside the area to be checked. Have a fine bi-metallic coil, especially heat treated and calibrated, permanently fixed to the pen arm. Pen may be adjusted to conform to test thermometer by adjusting screws. Charts are quickly changed as pen mechanism opens with the door and swings completely out of the way. These door assemblies can be used for either 24 hour or 7 day, select proper charts.

Interchangeable Tempscribe Door Assembly Only For Temperature Recorder

No.	Range
21800	—10° to +50° F.
21804	+40° to +100° F.

Interchangeable Clock Case only with ink

21814 Rotates Once Each 24 Hours
21817 Rotates Once Each 7 Days
Select Door and Clock Case to make complete unit.

D Tempscribe On and Off Recorder Self Contained Door Assemblies

Used to record the running time on any electrical device such as motors, heaters, lamps, etc. They are of the electro magnetic type with an armature permanently fastened to the pen arm. Ideal for use in refrigerators to record idle and running time. May be used on both AC and DC currents from 25 to 60 cycles. Rotates Once Each 24 Hours.

Interchangeable Tempscribe Door Assembly Only For On and Off Recorder

21810 Type C for 25 to 60 C AC or DC 110 to 250V Parallel Operated. With alligator clips.

Interchangeable Clock Case Only with ink

21814 Rotates Once Each 24 Hours

Extra Recording Charts

These charts are made on a very fine quality paper 4 inches in diameter especially die cut to fit Tempscribe recorders.

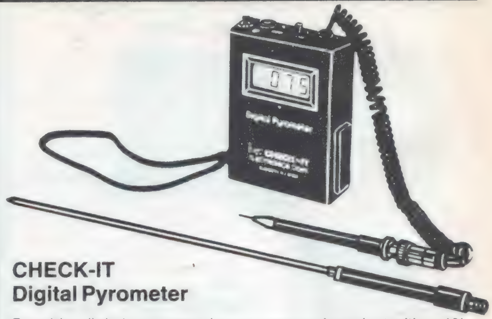


Rotates Once Each 24 Hours Div. 2° F. 15 Min.

No.	Range	No.	Range
21598	-30° to +50° F.	**21824**	+40° to +100° F.
21592	-20° to +40° F.	**21825**	+50° to +130° F.
21820	-10° to +50° F.	**21653**	+70° to +130° F.
21821	+10° to +90° F.		
21822	+30° to +60° F.		
21828	On and Off		

Rotates Once Each 7 Days Div. 2° F. 3 Hours

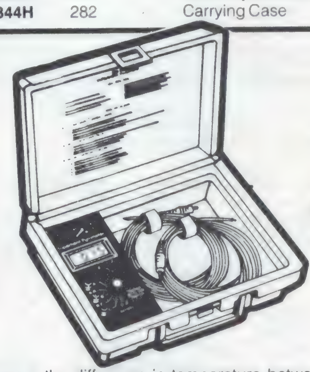
21836 +40° to +100° F.
21830 Red Recording Ink
21840 Capillary Pen For Recorders



CHECK-IT Digital Pyrometer

Portable, digital pyrometer has one second readout with ±1% accuracy. Range: -40° to 1999° F. Has BNC connector to connect air probe, contact or psychrometric probe. Psychrometric probe readings take 15 seconds and require normal relative humidity chart as it reads wet and dry bulb temperatures by sliding a switch on probe. Air probe reads gas and air temperatures. Contact probe reads pipe, line, trap and other contact temperatures. Features rugged black aluminum case, backlight for dark area readings, 3 ft. retractable coil cord, power switch for efficient use of batteries. Model 602 comes with an air probe and a needle probe.

No.	Model	Description
65340H	602 HVAC	Pyrometer with 2 Probes
65341H	199	Extra Air Probe
65342H	200	Extra Needle Probe
65343H	424	Extra Psychrometric probe
65344H	282	Carrying Case



Check It Super Heat Pyrometer

Measure the difference in temperature between pairs of sensors, from -00° to 500° F. or -70° to 260° C. The individual temperature sensor can be read making this also useful as an electronic thermometer. Using the Sensor Switch, a refrigeration serviceman can determine superheat or the temperature at one end of the evaporator or the difference between the temperatures at both ends or any intermediate point of the evaporator. Comes with 2-15 ft. detachable sensors. Interchangeable sensors read air, pipe and liquid temperatures. Digital readouts are updated 1.5 times per second at ±1% accuracy. Has 3 jacks for interchangeable sensors. °C to °F power switch. Rugged molded case, large storage well for sensors & accessories. 9V battery operated. 7-1/2"x10"x3-3/4".

No.	Model	Description
65345H	613	Superheat
65346H	654	15' Long Wire Sensor
65347H	709-25	25 Ft. Extension Cord



Check-It Low Cost Digital Pyrometer

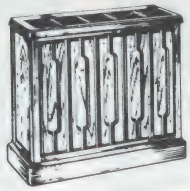
This pyrometer can be used to check temperatures of -40° to 1999° F. Accuracy is 1% ±1 digit from -40° to 1000° F.; 2% ±1 Digit from 1000° F. to 1999° F. Comes with a 9 volt battery and #1130 Universal probe all contained in a shockproof case 7-1/4" x 3-5/8" x 1-1/8". To insure reliability each instrument has a 5 day (120 Hour) Burn-In with temperature cycling before shipment. The retractable lead will extend to 3 feet and has phono type connector for probe. Display numbers are 1/2" high. A low cost 3 foot long wire probe is available to check self-cleaning ovens. Weighs approximately 10 oz.

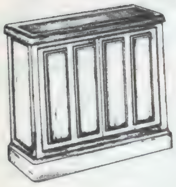
No.	Model	Description
65349H	616	Pyrometer Set
65350H	1130	Universal Probe
65351	1160	Hi Temp. 3 Ft. Disposable Wire Probe

SEE SEPARATE PRICE LIST

Edison®Humidifiers

No. 95791





No. 95793



No. 97684

Finished in washable stain resistant wood grain. Equipped with an adjustable humidistat that shuts off unit when humidity setting is reached. A water level indicator shows amount of water in tank. When water level is too low, the automatic water switch turns water off and a red indicator light is shown, except on Part No. 97684. Drum type evaporator mechanism has a humidity output of up to 15 gal. AHAM certified at 30% relative humidity, and 70°F. room temperature. Dry room air is drawn through the back and filtered humidified air is discharged from the top. All humidifiers feature lift-off cabinet for easy cleaning as well as top fill and ball bearing casters.

No.	Dimensions High	Wide	Deep	Water Reservoir Capacity	Shpg. Wt.
97684Y	23-3/4"	26"	11-1/8"	7.5 gal.	32 lbs.
95793Y	23-3/4"	26-1/8"	11-1/8"	7.5 gal.	32 lbs.
95791Y	24-1/2"	26-1/8"	11-1/2"	7.5 gal.	32 lbs.

Specifications

No.	Certified Capacity	Fan Motor Settings	CFM
97684Y	10 Gal.	2	325
95793Y	12 Gal.	3	325
95791Y	14 Gal.	Infinite	325

Filter Pad for Models

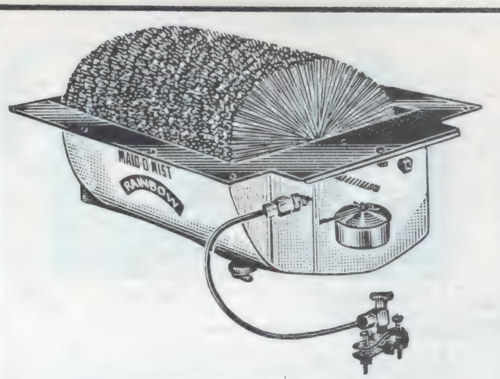
97681Y	E29; E39; E59; HC15; HC16; HU14A, -B; HU15; HU17; HU18; 534151, 534171
95789	C15D; C25D; C25E; HU8; HU9; HU10; HU13; HU14; 534081, 534101, 534121, 534142
95790	Gear motor replacement

Lau Vapor Air 5 Humidifier



Vapor Air, 5 Humidifier is designed for residential and light commercial applications. This unit features a baked enamel finish corrosion resistant case with stainless steel media wheel and adjustable float and a non-corrosive fiber glass reservoir, removable for easy cleaning. Vapor Air 5 humidifiers can be installed on any forced air heating system and mounted on either the warm air or cold air plenum. Comes complete with 3 ft. flexible duct, humidistat for wall or duct application, 24 volt, transformer and 20 ft. of electrical wire. Designed so that air is drawn into the unit, passes through moistened pad, becomes humidified and forced into the heating system. This unit is extremely easy to service. Unit has a water shut off valve which eliminates the need to turn off water and saddle valve. Will deliver up to 35 gallons per day at 180°F. Duct temperature with .2" S.P. Warranty 18 months on entire unit. Wt. 12.4 Lbs. ARI Certified.

No.	Long	High	Deep	Capacity Per Day
97121N	12"	11"	12"	18 Gal.
97125N	Media Pad for 97121N			



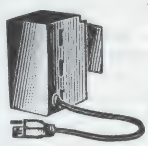
Slide-A-Mount Frame Shown in Position For Installation Slide Unit In For Cleaning or Servicing Slide Unit Out



Famous Maid-O-Mist Float Control Valve 70970

Top Quality Long Life Nylon Brush Each Bristle Crimped To Bring Up More Water 70968





Heavy Duty Geared Motor 115V 60C Geared To Reduce Speed In Ventilated Metal Case 70969

Maid-O-Mist Rainbow Power Humidifier
Up To 24 Gallons Of Water Daily Simple—Noiseless—Top Quality Efficient—Controlled—Cleanable

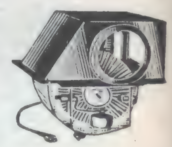
An advanced design with ample humidity capacity for small, average, and large houses. Has see through housing of tough, strong acrylic plastic that lets you see the operation and check for cleaning. The white nylon brush has a stainless steel shaft that snaps out for cleaning. Every bristle is crimped to bring more water into the air stream as the brush revolves out of the water reservoir. A heavy duty 115V 60C AC motor is geared down to slowly revolve the brush through the water in the plastic reservoir, and has plenty of reserve power even if silt and lime are allowed to be built up in the reservoir. Motor is externally mounted on the side in accessible ventilated metal case. The complete reservoir with motor, brush, and float control valve slides into the mounting frame and is secured in place with one screw. Remove the screw and slide out for cleaning or servicing. See through plastic reservoir has snap out drain plug, and also connections for overflow drain line. Complete with quick hook up saddle water valve and 5 ft. of 1/4" copper tube, template and instructions. Overall dimensions 19-1/4" long, 10-1/4" wide, and 6-5/8" deep. Minimum duct opening 12-1/4" with mounting frame size 12-1/4" x 15-5/8".

No. **70960L** Complete Rainbow Humidifier

Replacement Parts for Rainbow Humidifiers

No.	Description
70968	Nylon Brush
70969	115V Geared Motor
70970	Float Control Valve

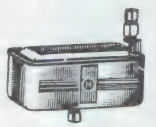
Plenum Adapter Kit



Plenum adapter kit includes the plenum adapter hood, mounting frame, closing panel cold air collar, adapter collar, flexible duct, and necessary screws. Used to mount in hot air duct or plenum with bypass to cold air duct.

No. **70961**

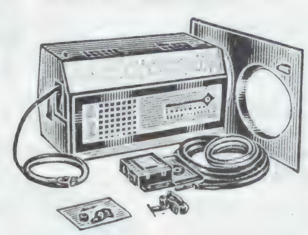
Maid-O-Mist Float Control And Reservoir



One piece deep drawn brass reservoir 2-1/2"x2-1/2"x6" long with 5/16" OD tube compression fitting on the bottom. Has No. 70971 vertical non-back syphoning float valve with 1/4" OD tube compression fitting.

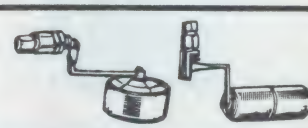
No. **70974**

Lau Vapor Air 3 Humidifier



Vapor Air 3 Humidifier is a completely automatic central system power humidifier designed for average to large residences requiring up to 20 gal. of moisture per day at 180°F. This unit is made of corrosion and break resistant compressed molded fiber glass casing and features a media window, an automatic purge system that reduces the frequency of servicing, and a non-corrosive wheel drum with reinforced hub for positive wheel lock. Also features a 115 Volt 1.0 Amp. 60 cycle motor with slip clutch and a removable center panel for easy service. Designed for use with any heating system forced warm or cold air plenum gravity, electric, or hydronic. This humidifier comes complete ready to install with saddle valve, duct humidistat, copper valve and all necessary hardware with instructions. Warranty 18 months on entire unit. Wt. 21.6 lbs. ARI Certified. UL Listed.

No.	Long	High	Deep	Capacity Per Day
97122N	18"	10"	10"	14.5 Gal.
97126N	Media Pad for 97122N			



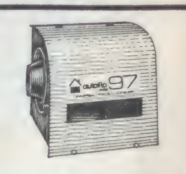
Maid-O-Mist Float Control Valves

Maid-O-Mist float control valves have hexagon brass rod machined body with removable chrome plated valve seat and brass valve stem with a heat and oil resistant neoprene washer. Horizontal floats mount in 9/16" hole with two 1/4" IPT lock nuts or in 1/4" female IPT hole. Non-back syphoning vertical floats mount with a bracket to side of reservoir. Feed line has 1/4" OD tube compression fitting. Capacity of 70970-1 is 1/2 gal. and 70972-3 is 1 gal. per minute at 50 lb. pressure.

No.	Float OD Long	Long	Mounting
70970	2-1/8"—1-1/4"	5-3/4"	Horizontal
70971	2-1/8"—1-1/4"	5"	Vertical
70972	1-1/2"—4-1/8"	8"	Horizontal
70973	1-1/2"—4-1/8"	6-1/2"	Vertical

AUTOFLO 97 Power Humidifier

For Forced-Air Heating Systems Evaporates up to 19.3 Gals. Water Per Day

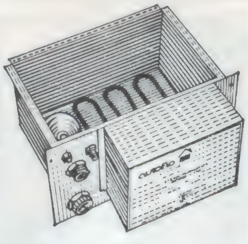


Produces more humidified air per unit of cost than any other power humidifier. Case, water pan, evaporator pad, and other parts are tough, corrosion-resistant plastic or stainless steel. Installation and service are simple. Periodic cleaning and annual replacement of the urethane foam media is recommended. Built-in window permits checking the interior. Stainless cover hinged for easy access. Unit mounts on return-air plenum, either left or right hand, with flexible take-off duct to warm air side. Humidity is distributed by the heating system duct work. Complete with self-piercing saddle valve assembly and compression fittings; ¼" diam. x 10 ft. water line; 24 volt transformer; flexible duct; plenum adapter shut off; mounting hardware; and instructions. 15½" W x 12½" D; shipping weight approx. 15 lbs.

No.	Description
95280Y	AutoFlo 97 Power Humidifier, 24 VAC Motor
95256Y	Evaporator Pad for Model 97
95219Y	Combination Wall Duct Humidifier for line or low voltage

SEE SEPARATE PRICE LIST

AUTOFLO X-15 Residential Power Humidifiers



Primarily designed for electric furnace or heat pump systems, where relatively low operating temperatures do not provide enough heat energy to allow an evaporative humidifier to function effectively. Model X-15's automatically deliver needed moisture with built-in electric heat source. Humidistat control is required, mounted in an interior room or in return air plenum. All parts touching water are brass or stainless steel — no problems of rusting or corrosion. Stainless reservoir is inserted into cool air return or warm air supply duct. Incaloy heating element in reservoir heats water to 170°F when furnace blower turns on to distribute humidity throughout the house. Heating can continue to boil. When selected humidity is reached, heat element turns off, and as water cools, fan control turns off. No interference with normal furnace operation. Has low water protection, nylon overflow fitting, and manual drain fitting. Supplied with heater, water temperature sensing switch, float valve with ball, low water float ball, transformer, relay, saddle valve, 10 ft. plastic water line, fan control cord, line cord assembly, panel light, control box cover, Klixon fan switch and installation manual. Overall size: 14-1/4" W. x 9-1/4" D. x 6-7/8" H. U.L. Listed.

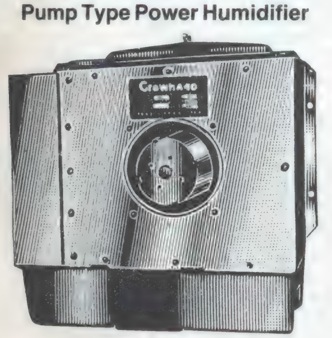
Water Evaporation

No.	Model	Per Hour	Gals. Per Day	60 Hz Volts	1 Ph Watts
95250Y	X-15A	5 lbs.	13	120	1400
95251Y	X-15B	7 lbs.	19	220	2000

Accessories for AUTOFLO X-15

No.	Model	Description
95219Y	052000	Sentinel Humidistat, wall or duct mount, line or low voltage
95253Y	52101	Humidistat, duct mount, only, line or low voltage, manual "off"
95254Y	1011K	Adapter Kit to convert Model X-15A into free standing humidifier. Includes cabinet and blower compartment.
95255Y	1284	Adapter for "under duct" mounting

AUTOFLO Model A40 Crown Pump Type Power Humidifier



Power humidifier with pump to keep the evaporator pad wet. Made of stainless steel with molded plastic water reservoir. Unit is air tight to channel the air through the evaporator pad. Can be flush mounted on the plenum or duct, or on the case of any warm air furnaces in an opening 12-1/4" wide and 10" high. Meets ARI standards; overall 16-½" W. by 14" H. by 7-1/8" D. Ship. Wt. 20 lbs. 115V, 60 Hz, 1 Ph: With 1 year guarantee.

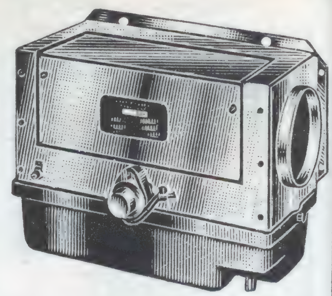
No.	Autoflo Model A40	Capacity Per Day
95207Y	Humidifier A40	13.2 Gal.
95208Y	Evaporator Pad, 40EP	
95219Y	Combination Wall Duct Humidistat For Line or Low Voltage	
95211Y	Humidifier Tablets	
95202Y	Pump and Motor Assembly	
95252Y	0407 10 Float Assembly	

Model A40S Drain Type Power Humidifier

Same as above, but has a solenoid valve to control water flow. Recommended for hard water areas.

95210Y	Humidifier A40S

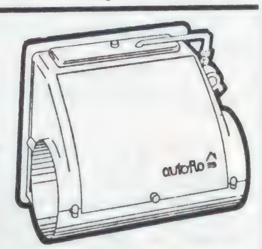
AUTOFLO Model 200 P By Pass Power Humidifier



Autoflo No. 200P passes air through a urethane foam, motor driven waterwheel and returns the air to the furnace blower. Made of stainless steel, with a molded plastic reservoir. The take-off is from either right or left side; plenum opening is 11" square. Complete with 6" dia. flexible duct 2'6" long, 1/4" compression saddle valve, 1/4" plastic tube 10 ft. long, 24V transformer, and mounting hardware. Unit is easy to clean and maintain. Meets ARI requirements. With 1 year guarantee. 24V, 60 Hz. Overall: 16" W. by 11" H. by 11" D. Ship. Wt. 12 lbs.

No.	Description	Capacity Per Day
95217Y	Humidifier	14 Gal.
95218Y	Evaporator Pad	
95219Y	Humidistat for Line or Low Voltage	

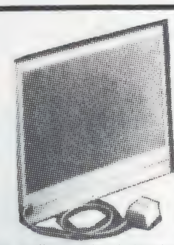
AUTOFLO Model 250 By Pass Power Humidifier



A flush mounting cabinet of high strength. Fits vertical, horizontal and counterflow forced air furnaces. A water metering control valve regulates the flow and flushes away excess mineral deposits. Removable stainless steel cover opens to permit cleaning and changing the evaporator pad. Plenum opening 9-1/2" square, with take-off on right or left side. Complete with 6" flexible aluminum duct 2 ft. long; 10 ft. plastic water tube; 1/4" saddle valve; 24V solenoid with transformer; aluminum mesh pad assembly, and instructions. One year warranty. Ship. Wt. 11-1/2 lbs.

No.	Autoflo No. 250	Capacity Per Day
95281Y	Humidifier	15 Gal.
95208Y	Evaporator Pad, 40EP	

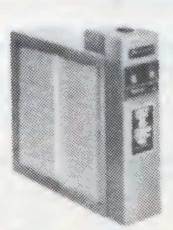
Electronic Whole House Air Cleaners



Electronic cleaner efficiently filters lint, pollen, animal dander, mold spores, tobacco smoke, asbestos, and more. Its easy to slide in and clean, and includes a convenient solid state power module. Full one-year warranty.

No.	Dimensions	No.	Dimensions
95890	16"x25"x1"	**95893**	20"x25"x1"
95891	16"x20"x1"	**95894**	14"x25"x1"
95892	20"x20"x1"		

White Rodgers Electro-Air Electronic Air Cleaner



20"x20" size fits most furnace applications. Its compact, lightweight twin cells provide real air-cleaning efficiency, removes lint, dust, pollen, cigarette and cooking smoke. Wt. 37 lbs.

No.	Type	CFM Range	Power Req.	Dimensions H	W	D
97881	UST	1000-2000	120v AC	205/8	215/16	67/8

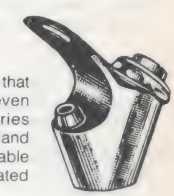
COMFORT-AIRE Electric Dehumidifier



Safeguard homes, offices, shops from high humidity damage and discomfort. Stops mildew, mold and rust. Compact, mobile and ruggedly built units. Heavy gauge steel cabinets and 23.6 pints styrene water collectors supplied on all models; casters on all models except 95713 supplied with 3 glides and 97514 with 2 wheels and 1 glide. Uses hermetic compressor on all models. Have integrally mounted humidistate for fully automatic dehumidification and 8 ft. 2" cord and plug. AHAM certified. UL & CSA approved. Prices shown are FOB our warehouse and include 5 year warranty on compressor. Units are 12¾" Wide, 22½" High and 18" Deep. (Water Removal Capacities Are Rated According to AHAM Standard DH-1 (80^0F. and 60% Relative Humidity.) All in finished woodgrain enamel.

No.	Water Removal Pints Per 24 Hours	Evaporator Coil O.D.	Evaporator Coil Length	Automatic Overflow
95713Y	14	5/16"	25 Ft.	No
95715Y	18	5/16"	36 Ft.	Yes
95716Y	25	3/8"	36 Ft.	Yes
95717Y	30	5/16"	50 Ft.	Yes
95718Y	35	5/16"	74 Ft.	Yes
95719Y	41	5/16"	74 Ft.	Yes

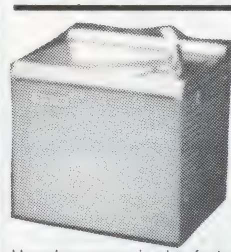
H & H Steady Stream Water Bubble



Streamlined brass forged water bubbler that delivers a steady stream of water even though the inlet water pressure varies greatly. Has push button on and off valve and large deflector. Valve cartridge is removable and replaceable. Heavy chromium plated finish. 3/8" FIPT.

No.	Description
14050	Complete Water Valve
14051	Replaceable Cartridge
14052	Escutcheon Plate

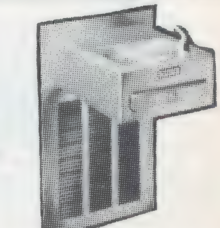
Temprite Slant Wall Compact Models



Use where space is a key factor. Made of heavy gauge steel and baked-on sandalwood finish. Raised rib basin; snap out drain strainer. Flexi-Guard. Non pressurized cooling tank. Removable one piece wrap around cabinet. Mounting hanger furnished. 120V. Based on 80^0F inlet water temperature, 90^0 room temp. 50^0 drinking water temp.

No.	G.P. Cap.	F.L. AMPS	COMP H.P.
90705	4.0	2.4	1/10
90706	8.9	3.3	1/6
90707	14.0	4.4	1/5

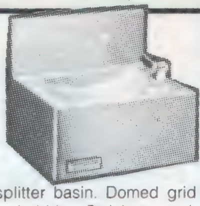
Barrier Free Water Fountain



Designed for wheelchair level as well as standard use. Self contained wall model mounts flush to wall. Suited for installing in public places. Stainless steel polished to a satin finish. Front push bar. Removable front grill. Steel mounting box furnished. Based on 80^0 inlet water temp., 90^0 room temp. 50^0 drinking water temp.

90790	7.8 Gal. Cap.	4.7 Amps	1/5 H.P.

SEE SEPARATE PRICE LIST



Temprite Single-Station Model

Ideal for limited space. Stream splitter basin. Domed grid strainer with tailpiece. Push button bubbler. Stainless steel. Projects 12½" from wall. 13" H. 15" L.
90710



Temprite Floor Model

Sandalwood-Cascade basin. Flexi-Guard. Non-pressurized cooling tank. Flush to wall installation with removable front panel for easy access to controls.

No.	Gal. Cap.	Amps	H.P.
90711	4.0	2.4	1/10
90712	8.9	3.3	1/6
90713	14.0	4.4	1/5



Temprite Compact Self Contained Bottle Type Cooler

Requires no plumbing. Provided with 3 prong power cord. Serves up to 30 people per hour. 115V.

No.	Gal. Cap.	Amps	
90714	1.0 G.P.H.	2.1	1/10 HP

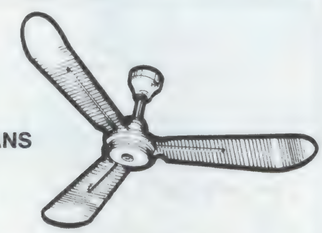


Temprite Space-ette Floor Model

Swirl flow basin. Flexi-Guard. Non-pressurized cooling tank. Removable front panel. Sandalwood with mounting hanger furnished.

90715	5.0 Gal. Cap.	2.2 Amps	1/10 HP
90716	8.0	3.5	1/6

CON-TECH FANS

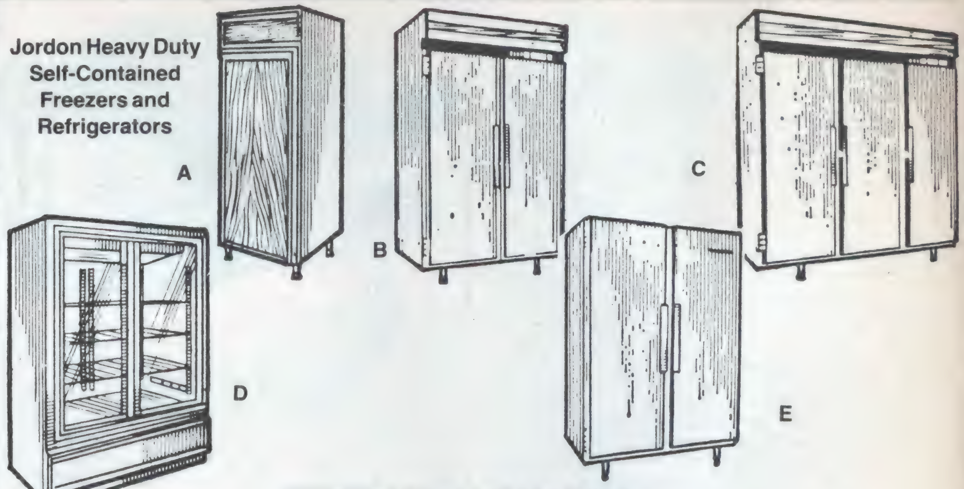


Improves Air Conditioning Circulates Stratified Air

Forcing hot air down from the ceiling, Con-Tech fans satisfy thermostat, reduce heat cycle, cut energy bills up to 30%. Ideal for installation above shipping room doors and warehouse ceilings. Con-Tech fans will destratify and redirect ceiling level masses of hot air back to the floor for maximum comfort of workers. Consumes little power. In the summer air conditioning sytems can run at a 4 to 8 degree higher temperature as ceiling fans will add air movement to cooled air. Has totally enclosed ball bearing motor, permanently lubricated for long life, balanced 3-wing aluminum blades with swept tip for broad coverage and resilient hand-straight suspension system. Comes totally pre-wired including heavy duty 24" grounded cord and plug, also supplied with two plated steel mounting J-Hooks, allowing installation in wood or steel beams. Walnut Brown finish, UL Listed with 3 Year Warranty. For use on 115 volts, 60Hz, 1 phase. Down Direction. Ship Wt. 30 Lbs.

No.	Delivery CFM	RPM Low	RPM High	Fan Dia.	Amps
94010Y	16500	80	265	56"	.81

Jordon Heavy Duty Self-Contained Freezers and Refrigerators



SPECIFICATIONS AND FEATURES

CONSTRUCTION—All welded steel. 18 gauge steel front header, mullions and lower front. One piece 13 gauge steel full base. One piece end. Cabinet fully vapor sealed. Rigid phenolic tie-in blocks behind breaker strips provide greater support. All coved interiors. Can be installed against side wall or in line up. Corrosion resistant. Adjustable legs.

EXTERIOR
- "A"— Stainless steel cabinet front, aluminum one piece ends, wood grain vinyl door fronts.
- "VW"— Stainless steel cabinet front, walnut vinyl exterior one piece ends. Walnut vinyl exterior door fronts.
- "S"— Stainless steel cabinet front, and one piece ends. Stainless steel door fronts.

INTERIOR—Polished .040 gauge aluminum.

BREAKER STRIP—Non-conductive, smooth extruded vinyl snap-in type. No exposed screws.

CABINET INSULATION—Armstrong heavy density 3" rigid fiber glass.

DOORS—Have a self-closing design cam and a magnetic gasket for positive seal.
- **Insulation**—Urethane foamed-in-place and bonded to door covering.
- **Inside Pan**—Metal to match inner cabinet liner.
- **Construction**—Mirror finish stainless steel door frame on all models. Equipped with thermal barrier. All door components bonded as one rigid section by foamed-in-place urethane insulation. U.L. Approved.
- **Opening**—Fully accessible when open to 90°. Door opens to full 90° within cabinet dimensions.

No. 95352 SPECIAL HINGING

CONDENSATION CONTROL—Low wattage wire heating element bonded to cabinet front.

GASKET—One piece heavy duty vinyl with magnetic insert. Vulcanized corners. Installed in rigid vinyl, thermal barrier channel without use of screws or clips for easy cleaning.

HARDWARE—Handles—Contour handles, edge mounted, made of extruded aluminum with modern decorative wood grain insert.
Hinges—Chrome plated cam lift, with automatic door closer and stay open position.

LIGHTS—Interior light with automatic switch on each door.

SHELVES—Adjustable, heavy-welded, steel wire electro-zinc plated shelves. Plastic coated and stainless steel wire shelves available.

PILASTERS—Easily removable for cleaning. Slotted on 1" centers for shelf adjustment.

AUTOMATIC CONDENSATE EVAPORATOR—Electric vaporizer plugs into convenience outlet in compressor compartment standard on all boxes except sliding glass door ones. If required extra $85.00 list each. However condensate tube can be connected to permanent drain if desired.

REFRIGERATION—Condensing Unit—Air cooled hermetically sealed, high torque unit is completely self-contained and thermostatically controlled. Electric cord with 3 wire grounded plug Capillary metering device. System fully charged and tested.

Jord-O-Matic Cooling System—Controlled air flow system, maintains uniform temperature and high relative humidity for better food preservation. Exclusive blower coil design requires less usable space. Automatic defrost.

COMPRESSOR—Additional 4 year Warranty At No Extra Cost

All Jordan Refrigerators & Freezers FOB Philadelphia, Pa.

Top Mount Self-Contained Units Complete With 115 Volt 60C Condensing Unit

Self Contained 1-Door Refrigerator 20.5 Cu. Ft. Capacity 29-1/4" Wide, 31-1/2" Deep, 80-1/4" High

No.	Fig.	Exterior Finish	No. Shelves	Compr. H.P.	Ship. Wt.
95300	A	A	3	1/4	425 Lb.
95740	A	VW	3	1/4	425 Lb.
95302	A	S	3	1/4	425 Lb.

Self Contained 1-Door Freezer 20.5 Cu. Ft. Capacity 29-1/4" Wide, 31-1/2" Deep, 80-1/4" High

No.	Fig.	Exterior Finish	No. Shelves	Compr. H.P.	Ship. Wt.
95303	A	A	3	1/3	455 Lb.
95741	A	VW	3	1/3	455 Lb.
95305	A	S	3	1/3	455 Lb.

Self Contained 2-Door Refrigerator 34.9 Cu. Ft. Capacity 57-1/2" Wide, 24-1/2" Deep, 80-1/4" High

No.	Fig.	Exterior Finish	No. Shelves	Compr. H.P.	Ship. Wt.
98680	B	A	6	1/3	550 Lb.
95742	B	VW	6	1/3	550 Lb.
98682	B	S	6	1/3	550 Lb.

Self Contained 2-Door Refrigerator 46.6 Cu. Ft. Capacity 57-1/2" Wide, 31-1/2" Deep, 80-1/4" High

No.	Fig.	Exterior Finish	No. Shelves	Compr. H.P.	Ship. Wt.
98683	B	A	6	1/3	600 Lb.
95743	B	VW	6	1/3	600 Lb.
98685	B	S	6	1/3	600 Lb.

Self Contained 2-Door Freezer 46.6 Cu. Ft. Capacity 57-1/2" Wide, 31-1/2" Deep, 80-1/4" High

No.	Fig.	Exterior Finish	No. Shelves	Compr. H.P.	Ship. Wt.
98689	B	A	6	1/2	610 Lb.
95744	B	VW	6	1/2	610 Lb.
98691	B	S	6	1/2	610 Lb.

Top Mount Self Contained Units Complete With 115 Volt 60C Condensing Unit

Self Contained 3-Door Refrigerator 70.4 Cu. Ft. Capacity 85-1/2" Wide, 31-1/2" Deep, 80-1/4" High

No.	Fig.	Exterior Finish	No. Shelves	Compr. H.P.	Ship. Wt.
95309	C	A	9	1/2	835 Lb.
95745	C	VW	9	1/2	835 Lb.
95311	C	S	9	1/2	835 Lb.

Self Contained 3-Door Freezer 70.4 Cu. Ft. Capacity 85-1/2" Wide, 31-1/2" Deep, 80-1/4" High 230V/60/1

No.	Fig.	Exterior Finish	No. Shelves	Compr. H.P.	Ship. Wt.
95315	C	A	9	3/4	865 Lb.
95746	C	VW	9	3/4	865 Lb.
95317	C	S	9	3/4	865 Lb.

Sliding Glass Door Reach-In Refrigerator 48 Cu. Ft. Capacity 57-1/2" Wide, 31-1/2" Deep, 75-3/8" High 115V/60C/1

No.	Fig.	Exterior Finish	No. Shelves	Compr. H.P.	Ship. Wt.
95321	D	A	6	1/2	660 Lb.
95747	D	VW	6	1/2	660 Lb.
95323	D	S	6	1/2	660 Lb.

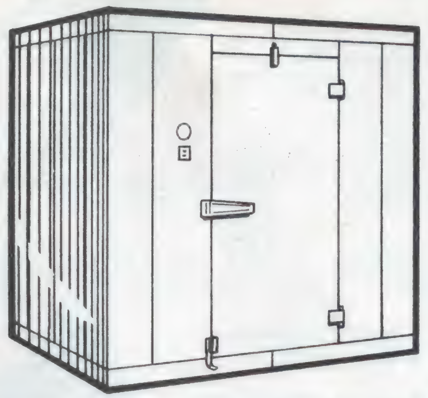
Remote Models Without Condensing Unit With Expansion Valve Compressor H.P. Shown Recommended by Manufacturer

Remote 2-Door Refrigerator 46.6 Cu. Ft. Capacity 57-1/2" Wide, 31-1/2" Deep, 68-1/2" High

No.	Fig.	Exterior Finish	No. Shelves	Compr. H.P.	Ship. Wt.
98695	E	A	6	1/3	540 Lb.
95748	E	VW	6	1/3	540 Lb.
98697	E	S	6	1/3	540 Lb.

SEE SEPARATE PRICE LIST

Kool-Rite Metal Walk-in Coolers/Freezers with Foamed-in Place Urethane Insulation



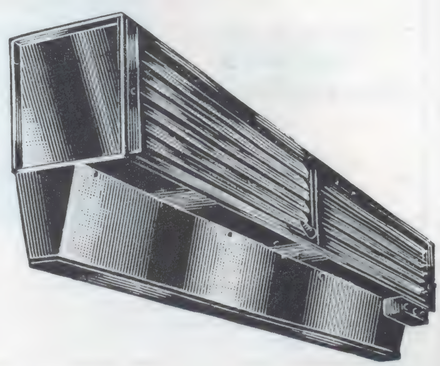
You can convert from freezer to cooler by changing the package refrigeration unit or you can partition your Walk-in for dual temperature installation. Coolers/freezers are shipped knocked down, insulated with 4" urethane foamed-in place which is adequate for temperature differences of 120^{0}F to -10^{0}F. Foamed-in place urethane's 97% closed cell insulation serves as a positive vapor seal making it desirable for low temperature and outdoor installation applications also giving the individual panels strength and rigidity without the need for additional internal framework. The light weight saves erection time and decreases floor load in the building. Foamed-in place is sanitary and clean, vermin and odor proof. All joints between panels are tongue and groove constructed with Roto-Cam lock for fast installation securing panel to panel. Coolers/freezers are supplied in either 26 gauge galvanized steel interior and exterior or .032 stucco embossed aluminum interior and exterior. The floor in both cases is 14 gauge galvanized steel designed to withstand uniformly distributed loads of 700 lbs. per square foot. Standard door size is 34" wide x 78" high completely insulated with foamed-in-place urethane, and the finish will match the walls of the Walk-in. Doors are equipped with heavy duty Chrome Plated hardware, inside safety release handle, cam lift self-closing type hinges and heating cables to prevent condensation and frost; also door panel comes with a 2-1/2" dial thermometer. Boxes include a vapor proof interior light, an exterior pilot light, a switch assembly and a junction box. All foamed-in-place urethane Walk-in coolers/freezers are NSF construction 7'6" high OD and supplied with floors. Partition walls available at additional cost. When ordering specify Swing of Door (left or right). Floorless Walk-ins available — supplied with Mfg. Rails. If no cooling unit ordered — specify size of opening needed and side or top mount. Other sizes and finishes available on request. When ordering specify outside dimensions.

Specifications Dependo "Foamed-In-Place" Walk In Coolers/Freezers Less Cooling Unit Prices Shown FOB Pell City, Ala.

7'6" OD NSF Galvanized Steel Cooler/Freezer Walk-In 7'6" OD NSF Embossed Aluminum Cooler/Freezer Walk-In

Actual Floor Size	Nominal Sq. Ft. Area With Floor	Side Mount No.	Top Mount No.	Ship. Wt. Lbs.	Recommended Kool Rite Unit 35^{0}F	0^{0}F.	-10^{0}F.	Side Mount No.	Top Mount No.	Ship. Wt. Lbs.
5'10"x5'10"	252	**96000**	**96020**	654	1/2	3/4	3/4	**96040**	**96060**	643
5'10x7'9"	306	**96001**	**96021**	772	1/2	1	1-1/2	**96041**	**96061**	789
5'10"x9'8"	360	**96002**	**96022**	846	3/4	1	1-1/2	**96042**	**96062**	912
7'9"x7'9"	368	**96003**	**96023**	894	3/4	1-1/2	1-1/2	**96043**	**96063**	958
7'9"x9'8"	430	**96004**	**96024**	1008	3/4	1-1/2	2	**96044**	**96064**	1133
7'9"x11'7"	492	**96005**	**96025**	1122	1	1-1/2	2	**96045**	**96065**	1292
7'9"x13'6"	554	**96006**	**96026**	1271	1	2	3	**96046**	**96066**	1458
9'8"x9'8"	500	**96007**	**96027**	1146	1	1-1/2	2	**96047**	**96067**	1287
9'8"x11'7"	570	**96008**	**96028**	1276	1	2	3	**96048**	**96068**	1470
9'8"x13'6"	640	**96009**	**96029**	1396	1	2	3	**96049**	**96069**	1659
9'8"x15'5"	710	**96010**	**96030**	1544	1-1/2	2	3	**96050**	**96070**	1850
11'7"x11'7"	648	**96011**	**96031**	1416	1-1/2	2	3	**96051**	**96071**	1657
11'7"x13'6"	726	**96012**	**96032**	1563	1-1/2	2	3	**96052**	**96072**	1881
11'7"x15'5	804	**96013**	**96033**	1712	1-1/2	2	3	**96053**	**96073**	2079
11'7"x17'4"	882	**96014**	**96034**	1850	1-1/2	3	(2)2	**96054**	**96074**	2294
11'7"x19'3"	960	**96015**	**96035**	1999	1-1/2	3	(2)2	**96055**	**96075**	2501

Virchem Air Doors



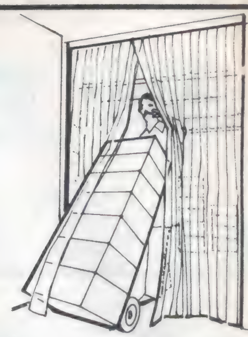
Virchem Air Doors come in one-piece self-contained housing which is fire retardant and corrosion proof, with adjustable air deflectors. Housing has sufficient strength for fastening to wall on both ends without any additional support. Can easily be installed to wall with four fasteners and connected to electric power source. Has adjustable vanes and outlet nozzle, adjustable louver damper controls. Comes with heavy-duty thermal overload protected electric motor. These air doors are scientifically engineered to exceed government regulations for long life. Will prevent loss of low temperature and minimize defrosting. Will save energy by preventing excessive operation of refrigeration system. Will seal in cold air, reduce humidity and ice build-up, or conserve air codnitioning. A curtain of high velocity air installed at entrances to refrigerated areas will keep warm air out and cool air in. Air doors are also effective as air barriers for complete protection against insects and dust. With 115/60/1 voltage. USDA and NSF Approved. F.o.b. our warehouse, and include 1 year Limited Warranty.

Performance Specifications

No.	Model	Unit Width	Maximum Door Width	Maximum Door Height	FPM	CFM	H.P.	Amps	Shpg. Wt.
93040Y	28	2'4"	2-1/2 ft.	10 ft.	3200	1250	1/3	3.5	45 Lbs.
93041Y	36	2'10"	3 ft.	10 ft.	3100	1250	1/2	4.3	52 Lbs.
93042Y	42	3'2"	3-1/2 ft.	10 ft.	3075	1250	1/2	4.3	56 Lbs.
93043Y	48	4'	4 ft.	10 ft.	2680	2000	1/2	4.3	60 Lbs.
93045Y	60	5'	5 ft.	10 ft.	3150	2500	(2)1/3	7.0	89 Lbs.
93046Y	6'6"hv	6'6"	7 ft.	12 ft.	3300	3750	(3)1/3	10.5	120 Lbs.

93047Y Microswitch for Automatic OFF/ON Control.
93048Y Adjustable Mounting Bracket for Clearance of up to 2-1/2" from wall.
(230/60 CY./1 phase units available upon Request.)

Thermo Curtain



Thermo Curtain is made of 6 inch vertical strips of Polythene clear plastic, .062 inch thick, that overlap 50%. The plastic strips have a temperature range of -50^0 to +140^{0}F and can be used at cooler to low temperature freezer temperatures. Reduce frosting, power costs, repairs and maintain stable temperatures and shelf life of food. Strips have rounded edges and give free access and easy passage. They may be installed inside so that regular door may be closed. We can quote you on Thermo Curtains for special doors for shipping platforms, delivery doors, etc. Give us the height and width of opening and how the passage way is used. Polythene is made from a USDA/FDA accepted compound.

No.	Door Width	Door Height	Curtain Width	Curtain High
96847Y	24" to 30"	78"	33"	84"
96848Y	31" to 38"	78"	42"	84"
96849Y	36" to 42"	84"	46"	90"

Temp Curtain



A flexible transparent polyethylene 6" vertical strip, .060" thick to separate the driver and passenger areas from cargo areas in vans and paneled trucks. The curtain is installed directly behind the driver seat on a 60" spring loaded mounting metal rod. The clear strips do not obstruct vision in rear view mirror, and are an effective barrier to temperatures and drafts. Strips are with rounded edges and are installed inside so that regular doors may be closed. Polyethylene is made from a USDA/FHA accepted compound. Plastic strips have a temperature range of 50^{0}F to 140^{0}F.

No. **96850** Inside Trucks/Vans

White Rodgers Self-Contained Air Cleaner



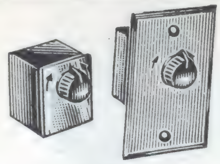
Easily installed, this ceiling hung, electronic unit removes dust, dirt, soot, pollen, and all airborne pollutants by drawing air from its bottom and recycling filtered air through four side vents. No duct work required. Features two speed blower, pre-filter, operating indicator light, baked enamel cabinet, high efficiency cell, solid state power supply, and four way diffusion grille.

Specifications

No.	Type	Maximum CFM	Power Requirements	Dimensions H	W	D	Wt
90700	CSC-1000	650 Low 1000 High	120VAC	30"	30"	12½"	76 Lbs.

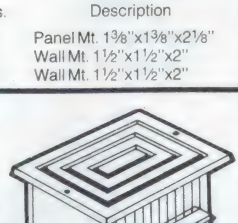
SEE SEPARATE PRICE LIST

Universal Infinite Variable Speed Control



No.	Mfg. No.	Amps.	Description
32821	KBSC14K	4	Panel Mt. 1⅜"x1⅜"x2⅛"
32822	KBWC14K	4	Wall Mt. 1½"x1½"x2"
32890	KBWC115K	15	Wall Mt. 1½"x1½"x2"

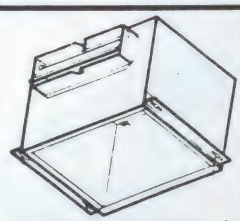
Broan Squirrel Cage Ventilating Fans



Heavy duty, squirrel cage exhaust fans with openings to discharge horizontally or vertically. They come in two models with adjustable mounting brackets. No. 94202 discharges into a 3¼"x10" duct, has life-time lubricated 90 Watt, 1.3 Amp. 120V. 60/1 motor. No. 94203 discharges into a 7" round duct, has a life-time lubricated 215 Watt, 3.3 Amp. 120V 60/1 motor. Units are easy to install, made of heavy gauge steel housing with an attractive unbreakable white plastic grill and built-in damper. Used in kitchens, bathrooms, etc. U.L. Listed.

No.	HVI Cert. CFM	Housing in Inches H.	W.	L.	Ship. Wt. Lbs.
94202G	300	9½	10½	14¼	20
94203G	460	14¾	15¼	14¼	36
97708	Solid State Wall Control				

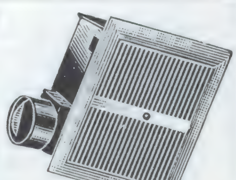
Broan Lo-Sone Blower



Driven by low RPM motor. Neoprene torsion mounts, ½" acoustic insulation inside 9½"x14¼"x10½" housing. Molded white plastic grille 12-3/16" x15½". Built-in damper. Discharges horizontally or vertically through 3½"x10" duct.

No.	Description
91205	100 CFM Horizontal or vertical discharge at only 1.5.
91206	160 CFM Horizontal discharge at 3.5 sones. 160 CFM vertical discharge at 3 sones.

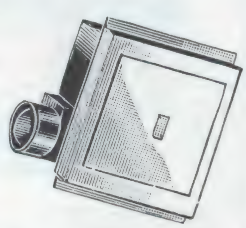
Broan Bathroom Wall Or Ceiling Ventilator



In 8"x8¼"x3¾" housing this unit can be secured to the wall with 4 nails to studs or joists. Steel housing comes with three knock-outs and large outlet for easy wiring. This vent will fit 3" duct for wall or ceiling installation and has built-in damper and plug in motor and fan assembly. Will ventilate up to 35 sq. ft. of space. 120 volt 60 cycle single phase. Features a plastic impeller wheel. White polymeric grille.

No.	Certified HVI	Ship. Wt.
97760G	50 CFM	4½ Lbs.

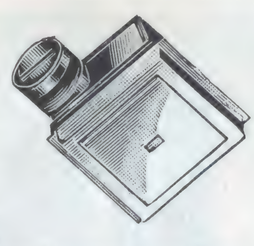
Broan Deluxe Ceiling Or Wall Ventilator



Available in two different power units but with the same housing, 8"x8¼" x3¾" thick. Units are engineered and designed with a new unique centrifugal blower wheel. Most specifically for bathroom ventilation. Unit housing is molded from impact resistant plastic. Very quiet performance. Will fit 3" round duct. Includes damper and duct connector. Has a lifetime lubricated plug-in motor. 120 volt, 60 cycle, single phase. White polymeric grille. U.L. Listed.

No.	HVI Certified CFM	Ventilates Area	Ship. Wt.
97762G	50	45 Sq. Ft.	5 Lbs.
97763G	70	65 Sq. Ft.	5½ Lbs.

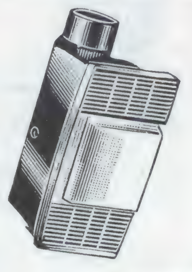
Broan Deluxe Ventilator



This deluxe ventilator will deliver 110 CFM and ventilate up to 110 sq. ft. bathrooms. Housing size is 8"x8¼"x5¾" high with four adjustable brackets for easy mounting. Unit has 1500 RPM plug-in lifetime lubricated motor. Ventilator can be used with 4" round duct and includes a damper and duct connector. White polymeric grille. 120V 60C 1 Phase.

No.	HVI Certified CFM	Ventilates Area	Ship. Wt.
97764G	110	100 Sq. Ft.	8 Lbs.

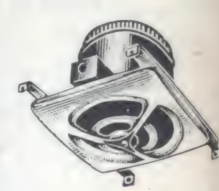
Broan Bath Combination Units



Heater, fan and light combination come equipped with 2 motors both 120 volt, 60 cycle, single phase. Uses 100 watt bulb. All three can be used separately or together. 1500 watt heater has quiet aluminum squirrel cage blower wheel. Will deliver 5119 BTU. Ventilator is HVI certified. Delivers 70 CFM. Includes damper and duct connector and will fit a 4" round duct. Unit has compact 8¼"x14¼"x5¾" housing, and break-resistant grill and lights. 10¼"x15½". White polymeric grille. Comes in fan-light combination. Switch extra as shown. U.L. Listed.

No.	Description	Ship. Wt. Lbs.
97765G	Heater-Fan-Light Unit	14
97766G	Fan-Light Unit	10½
97767G	3-Circuit Switch with Gold colored Wall Plate	1

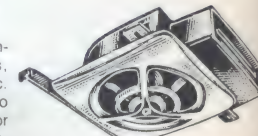
8" and 10" Vertical Discharge Ceiling Fans



For kitchens, bathrooms, etc. These Broan fans are easy to install and come complete with adjustable brackets to secure between the joists. 120V/60C/1 motor is lifetime lubricated, overload protected, and vibration free. White polymeric grille. 8" dia. fans fit 8" round ducts and 10" diameter fit 10" round duct. U.L. Listed. Only No. 97711G has a damper.

No.	Diam.	HVI Cert. CFM	Grille	Housing Diam.	Housing High
97711G	8"	190	11¾" sq.	8¾"	8¼"
97712G	10"	430	14-5/16" sq.	10½"	7"
97708G	Wall mount solid state control				

Side Discharge Fans

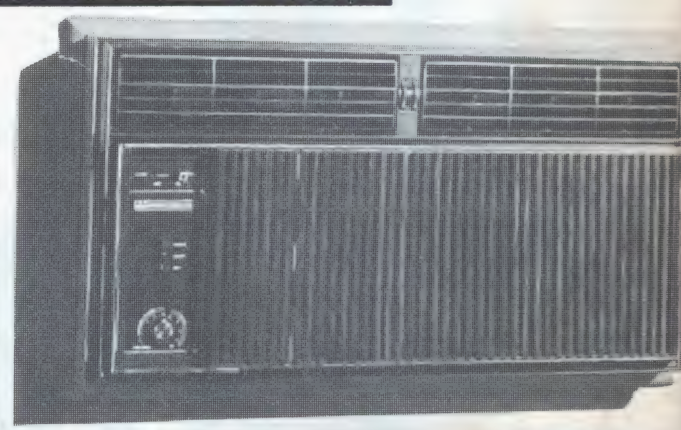


Used for ventilation of kitchens, recreation rooms, storerooms, bathrooms, etc. These fans come in two sizes. Rubber mounted for quiet operation, permanently lubricated overload protected motors. 120V/60C/1 and built-in damper, they feature a slim steel housing, 3¼" with adjustable hanger brackets that fit between ceiling joists up to 24" span or 2"x4" side walls. White polymeric grille. Discharges into 3¼"x10" duct. U.L. Listed. No. 97706G has 11¾" square grille, and No. 97707G has 14-5/16" square grille.

No.	HVI Cert. CFM	Fan Diam.	Housing Wide	Housing Long
97706G	200	8"	12"	14"
97707G	320	10"	13⅞"	16-5/16"
97708G	Wall mount solid state control			

EQK EMERSON QUIET KOOL®

Space Module Thru-the-Wall Room Air Conditioners

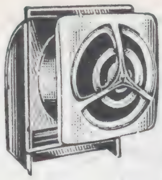


These thru-the-wall room air conditioners are available in straight cooling models from 6220 BTU's to 11800 BTU's and cooling and heating in 11800 BTU's only. Units are of compact design which makes them readily adaptable for installation for most thru-the-wall sleeves. These units come complete with cabinet and wood-grained front design, exterior aluminum rear grill for protection of condenser, and are well engineered for long trouble-free life. Emerson Quiet Kool thru-the-wall room air conditioners are quiet and dependable. They feature a slide-out washable filter, rust and corrosion resistant weather-sealed chassis, adjustable thermostat, as well as 2-speed centrifugal blowers for both the evaporator and condensing sections for quiet operation, with across-the-top louvered design and push-button control. These units will fit Fedders, G.E., Hotpoint, and Welbilt sleeves, with optional adapter frame for Fedders as shown. Thru-the-wall heavy-duty sleeves complete with support channel and lever adjustment are available at extra cost as shown. Units carry one year warranty on parts, 2 year warranty on the fan motor, and five years on the sealed unit. Cooling and heating capacity certified under AHAM Certification. FOB our warehouse. 25" wide, 14¼" high, and 18½" deep.

No.	BTU/HR Cooling (AHAM Certified)	BTU/HR Heating (AHAM Certified)	Amps Cooling	Amps Heating	Voltage	D.O.E. E.E.R.	Shpg. Wt.
98083Y	6200	—	6.4	—	115V	9.0	84 lbs.
98071Y	8400	—	8.6	—	115V	9.1	88 lbs.
98072Y	10000	—	5.2	—	230/208V	8.5	94 lbs.
98078Y	10000	10000	5.2	14.0	230/208V	8.5	95 lbs.
98073Y	11800	—	6.7	—	230/208V	7.7	98 lbs.
98074Y	11800	10000	6.7	14.0	230/208V	7.7	99 lbs.
98075Y	Steel Sleeve for Above 26¾" wide, 15" deep, 15¾" high						
98076Y	Adapter Frame to Fit Fedders Sleeve						

SEE SEPARATE PRICE LIST

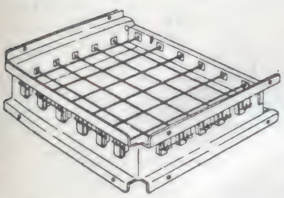
Thru The Wall Automatic 8" and 10" Exhaust Fans



Easy to install, these wall mount Broan fans are used in kitchens, bathrooms, etc. 120V/60C/1 motors are lifetime lubricated, overload protected and vibration free. Both units come with double exhaust opening. White polymeric grille.

No.	Diam.	CFM	Grille	Housing Diam.
97716G	8"	260	11¾" sq.	9¼"
97717G	10"	350	14-5/16" sq.	11¼"

Ice Cube Maker Cutting Grids



Available for both cubes, 1¼"x1½" or cubelets, ¾"x¾". Ice cube grids will fit Scotsman and Frigidaire 135 lb. models and up.

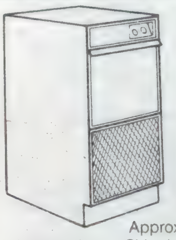
No.	Description
93035	Optional Large Cube Grid for Ice Maker 97141-44
93036	Cubelet Grid for for Model 97141
93038	Cube Grid
93039	Cubelet Grid
93053	Kit containing enough wire pins, insulators and spring clips to completely re-string grid 93038.
93054	Kit containing enough wire pins, insulators and spring clips to completely re-string grid 93039.

Ice Maker Pump Motor

97147Y	115V 60C 1 Ph 1450 RPM Motor with Overload for Whirlpool and Scotsman Ice Machines Thru 1970
97148Y	115V 60C 1 Ph 3000 RPM Motor with Overload for Whirlpool and Scotsman Ice Machines Late 1970 on

Ice-O-Matic Cuber

Series C-10

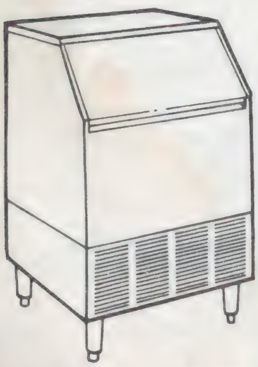


Cuber with self-contained insulated storage bin for up to 48 lbs. of ice per day production. Built-in. 35 lb. storage capacity. H.P. 1/5.

No.	Cube Size	Ice Prod. Lbs./24 hrs. @ 70° Air/50° Water	Condensing Unit	Approx. Shipping Weight
90740	¾x¾	48	Air	124

Ice-O-Matic Undercounter Cuber

Model UC-20



Production of up to 215 lbs. of ice per day with 100 lb. self-contained insulated storage bin. H.P. 1/3.

No.	Cube Size	Ice Prod. Lbs./24 hrs. @ 70° Air/50° Water	Condensing Unit	Approx. Shipping Weight
90741	Half	210	Air	180
90742	Half	215	Water	180

Ice-O-Matic Cuber

Series C-20

Shown on No. 90760 insulated storage bin



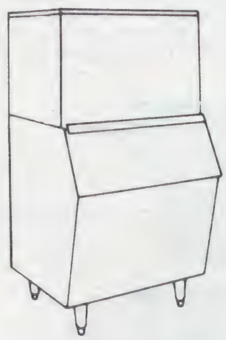
Stackable cuber, insulated storage bin combinations, and up to 241 lbs. (482 lbs. stacked) of ice per day production. 170 to 1000 lbs. storage capacity. H.P. 1/3.

No.	Cube Size	Ice Prod. Lbs./24 hrs. @ 70° Air/50° Water	Condensing Unit	Approx. Shipping Weight
90743	Half	233	Air	158
90744	Half	241	Water	165

Ice-O-Matic Cuber

Series C-40

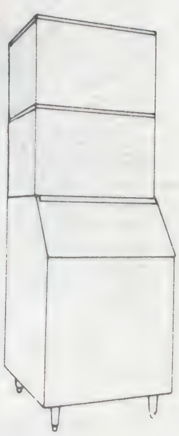
Shown on No. 90767 insulated storage bin



Stackable cuber, insulated storage bin combinations with up to 432 lbs. (864 lbs. stacked) of ice per day production. 170 to 1000 lbs. storage capacity. H.P. 1/2.

No.	Cube Size	Ice Prod. Lbs./24 hrs. @ 70° Air/50° Water	Condensing Unit	Approx. Shipping Weight
90745	Half	405	Air	180
90746	Half	432	Water	188

Ice-O-Matic Cuber



Series C-61

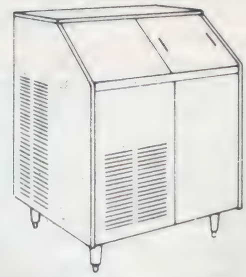
Shown on No. 90762 insulated storage bin.

Stackable cuber, insulated storage bin compartments with up to 640 lbs. (1280 lbs. stacked) of ice per day production. 170 to 1000 lbs. storage capacity. H.P. 3/4.

No.	Cube Size	Ice Prod. Lbs./24 hrs. @ 70° Air/50° Water	Condensing Unit	Approx. Shipping Weight
90747	Half	636	Air	180
90748	Half	640	Water	188
90760	170 lb. Insulated Storage Bin			
90761	365 lb. Insulated Storage Bin			
90762	550 lb. Insulated Storage Bin			

Ice-O-Matic Flaker

Model F32

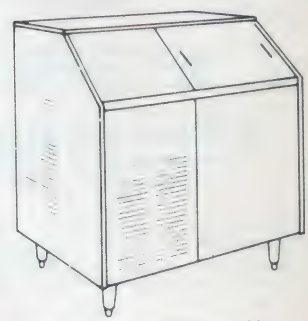


With 150 lbs. capacity self-contained insulated storage bin and 3 different chassis for production of up to 744 lbs. of ice per day. H.P. 1/3.

No.	Bin Storage Lbs.	Ice Prod. Lbs./24 hrs. @ 70° Air/50° Water	Condensing Unit	Approx. Shipping Weight
90749	150	246	Air	262
90750	150	440	Air	269

Ice-O-Matic Flaker

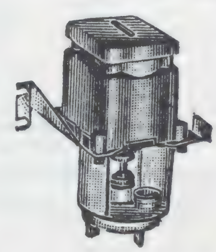
Model F-38



With 250 lb. capacity self-contained insulated storage bin, and 4 different chassis for production of up to 1133 lbs. of ice per day. H.P. 1/3.

No.	Bin Storage Lbs.	Ice Prod. Lbs./24 hrs. @ 70° Air/50° Water	Condensing Unit	Approx. Shipping Weight
90751	250	246	Air	277
90752	250	440	Air	284

Water Pump Assembly for Ice Makers



Fits all Whirlpool Scotsman and Frigidaire Ice Cube Makers. Models 1970 and later, from 50 Lb. capacity models through 500 Lb. capacity models. 115 Volt 60 Cycle.

No.
93037

SEE SEPARATE PRICE LIST

You surely have noticed there are no prices shown in this catalog. Call the Alter location of you choice for our most current price list.

HACO Multi-Mounting 40 VA 24 Volt Transformers

Universal installation for either foot, plate or conduit knockout mounting. With color coded wires on primary side, screw type terminals on secondary. Wiring diagram supplied. Class II energy limiting control voltage transformer. With foot mounting adapter plate and conduit nut. Adapter plate will fit a 2"x4" or 4" sq. box. Replaces all Class II control voltage transformers with the same primary voltage and equivalent or less VA ratings at 50/60 cycles. H 3", W 2-15/16", D 1-7/8". Wt., 1 lb. 15 oz.

No.	Primary	Secondary
41915	120 V.	24 V.
41916	208/240 V.	24 V.
41917	120/208/240 V.	24 V.

Honeywell Low Voltage Transformers

Supply low voltage current for controls and thermostats from line voltage. Plate mounted, fits 4" box. 25V secondary.
Primary 120/208/240V 50/60 Hz With Combination Foot Mount or Plate for 4" Box

No.		25 Volt Secondary
73661	AT87A1106	50 VA
Primary 208/240V 60 Hz With Foot Mount Only		
73662	AT88A 1021	75 VA

GE Appliance & Air-Conditioning Auto Transformer 208V Primary To 230V Secondary 50/60 Hz.

Operate single phase 230V 60C hermetic units or motors on 208V SP 60C lines. The 23" No. 14SPT3 cord with 15A 250V tandem blade grounded plug and matching receptical mounted in the case. 60C. Transformers are UL listed. GE Type 9T51Y.

No.	Trans.	Unit	GE 9T51Y	Net Wt.
45449	3.1 KVA	2-HP	5406	7.0 Lb.

GE General Purpose Transformer-50-60 Hz

Dry type QHT for general light and power service where primary service is 240 or 480 volts, and secondary is 120 or 240 volts for 50/60C single phase. Wall mounted, used indoors or outdoors. GE Model 9T51Y. All transformers are UL listed.

No.	Volt Amp	High	Wide	Deep	Net Wt.
45764	50	6⅝"	3-3/16"	3"	3 Lb.
45765	100	6¾"	3⅞"	3⅝"	5 Lb.
45766	250	7½"	3⅞"	3⅝"	7½ Lb.
45767	500	8⅛"	4¾"	4-5/16"	11½ Lb.
45768	750	8⅞"	4¾"	4-5/16"	14½ Lb.
45769	1000	9⅝"	5½"	4⅞"	21 Lb.
45770	2000	12⅝"	5½"	4⅞"	37 Lb.
45771	3000	13"	6-5/16"	5½"	49 Lb.

Honeywell Multi Mounting 40 Volt Amp. 24 Volt Transformers

Feet for surface mounting. May be secured to an adapter plate so 24 volt secondary connections are on top with the transformer above the plate or with the transformer about 2/3 below the plate. Adapter plate fits reg. 4" sq. junction box with knock-outs to mount or 4" sq. irreg. box and octagon box and 2" by 4" boxes. Primary 50/60 cycle AC with 40 volt amp. capacity.

No.	AT72	Primary	Secondary
73741	D1683	120 V.	24 V.
73742	D1691	208/240 V.	24 V.

A

B

C

SEE SEPARATE PRICE LIST

C

D

E

F

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T

U

V

W

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1987 DEPENDABOOK ◆ NUMBER 233 NO. 1

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Harry Alter ships all merchandise F.O.B. our shipping point. Unless we receive instructions to the contrary, we will ship by the lowest cost method we can find. For carriers who require prepaid freight, charges will appear on either the invoice with the merchandise or on an invoice at a later date. We are happy to ship by any route you request.

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Do not send any merchandise back to Harry Alter without written return authorization from the location where the material was purchased. Material can be returned in resalable condition and original packaging only. A copy of your invoice must accompany your request and a 15% restocking charge will be applied to all returns. All freight charges must be prepaid to Harry Alter.

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PART	DESCRIPTION	UOM	PAGE	PRICE
00292	TOG BOLT 1/4" D 4" LONG	EA	53	.35
00293	TOG BOLT 1/4" D 6" LONG	EA	53	.46
00355	BX 100 10X24 ANCHOR	BOX	53	18.28
00356	BX 100 1/4X20 ANCHOR	BOX	53	27.40
00357	BX 50 3/8X16 ANCHOR	BOX	53	67.21
00652	100FT 24 GAX3/4 STEEL STRAP	EA	53	7.89
00653	100FT 20 GAX3/4 STEEL STRAP	EA	53	10.14
00654	THD ROD 1/4-20 3FT(SELL 5 LOTS	EA	53	.70
00655	THD ROD 3/8-16 3FT SELL 5 LOTS	EA	53	1.19
00656	THD ROD 1/2-13 3FT SELL 5 LOTS	EA	53	1.91
00660	25FT 3/4" COPPER STRAP	EA	53	12.30
00670	HW6X3/8Z ZIP IN SCREWS	PKG	53	.84
00671	HW7 X 1/2 ZIP SCREWS	PKG	53	.96
00672	HW8 X 1/2 ZIP SCREWS	PKG	53	.94
00673	HW8 X 3/4 SCREWS	PKG	53	1.22
00674	HW8 X 1 1/2ZIP SCREWS	PKG	53	1.99
00675	HWZ 8X2Z ZIP SCREWS	PKG	53	3.03
00676	HW10X1/2Z ZIP SCREWS	PKG	53	1.37
00677	HW10X3/4 ZIP SCREWS	PKG	53	1.60
00678	HW10X1Z ZIP SCREWS	PKG	53	1.80
00679	SP6X3/8 SCREWS	PKG	53	.93
00680	SP7X1/2 SCREWS	PKG	53	1.02
00681	SP8 X 1/2 SCREWS	PKG	53	1.06
00682	SP8X3/4 SCREWS	PKG	53	1.14
00683	SP8 X 1 SCREWS	PKG	53	1.32
00684	SP10X 1/2 SCREWS	PKG	53	1.32
00685	SP10X 3/4 SCREWS	PKG	53	1.52
00686	SP10X1 SCREWS	PKG	53	1.72
00687	SP10 X 1 1/4 SCREWS	PKG	53	2.16
00688	3/16 X 1/2 MACHINE SCREWS	EA	53	1.39
00689	3/16 3/4 MACHINE SCREWS	EA	53	1.56
00690	1/4 X 1/2 MACHINE SCEWS	EA	53	2.00
00691	1/4 X 3/4 MACHINE SCREWS	EA	53	2.43
00692	1/4 I MACHINE SCREWS	EA	53	2.79
00693	3/16 NUTS	EA	53	1.36
00694	1/4 MACHINE SCREW NUTS	EA	53	1.80
00710	DRL & TAP SCR 6-32X3/8 DR SZ#2	BOX	53	20.72
00711	DRL & TAP SCR 8-18X1/2 DR SZ#2	BOX	53	16.70
00712	DRL/TAP SRC 8-18X5/8 DR SZ 1/4	BOX	53	22.01
00713	DRL/TAP SCR 8-18X3/4 DR SZ 1/4	BOX	53	23.80
00714	DRL/TAP SCR 8-18X1 DR SZ 1/4	BOX	53	26.46
00715	DRL/TP SCR 10-16X1/2 DR SZ5/16	BOX	53	24.90
00716	DRL/TP SCR 10-16X5/8 DR SZ5/16	BOX	53	26.04
00717	DRL/TP SCR 10-16X3/4 DR SZ5/16	BOX	53	25.14
00718	DRL/TP SCR 10-16X1 DR SZ 5/16	BOX	53	35.14
00720	DRL/TP SCR 12-14X3/4 DR SZ5/16	BOX	53	42.57
00721	DRL/TP SCR 1/4-14X3/4 DR SZ3/8	BOX	53	55.30
00722	DRL/TP SCR 1/4-20X1 DR SZ 3/8	BOX	53	66.48
00723	DRL/TP SCR 1/4-20X3/4 DR SZ3/8	BOX	53	61.88
00922	10" RIB JOINT PLIERS	EA	80	9.96
00928	INT RETAINING RING PLIERS	EA	80	8.84
00929	EXT RETAINING RING PLIERS	EA	80	8.84
00945	RETAINING RING PLIER KIT	EA	80	30.53
00946	REPL SET OF TIPS FOR #945	EA	80	9.13
00988	SPRING BENDER SET (HOUSE KIT)	EA	76	7.25
01000	3/16 COMPRESSION SLEEVE	EA	42	.05
01001	1/4 COMPRESSION SLEEVE	EA	42	.04
01002	5/16 COMPRESSION SLEEVE	EA	42	.05
01003	3/8 COMPRESSION SLEEVE	EA	42	.06
01005	1/2 COMPRESSION SLEEVE	EA	42	.18
01009	1/8 COMPRESSION SLEEVE	EA	42	.04
01019	1/8 COMPRESSION SLEEVE	EA	42	.15
01020	3/16 COMPRESSION NUT	EA	42	.15
01021	1/4 COMPRESSION NUT	EA	42	.15
01022	5/16 COMPRESSION NUT	EA	42	.20
01023	3/8 COMPRESSION NUT	EA	42	.22
01025	1/2 COMPRESSION NUT	EA	42	.63
01029	1/8 COMPRESSION UNION	EA	43	.91
01030	3/16 COMPRESSION UNION	EA	43	.88
01031	1/4 COMPRESSION UNION	EA	43	.88
01032	5/16 COMPRESSION UNION	EA	43	1.15
01033	3/8 COMPRESSION UNION	EA	43	1.13
01035	1/2 COMPRESSION UNION	EA	43	2.20
01039	1/8 COMPRESSION TEE	EA	43	2.16
01040	3/16 COMRESSION TEE	EA	43	1.77
01041	1/4 COMP TEE	EA	43	1.83
01042	5/16 COMP TEE	EA	43	2.11
01043	3/8 COMP TEE	EA	43	2.34
01045	1/2 COMP TEE	EA	43	4.79
01050	1/8X1/8 MIPT COMP CONN	EA	43	.54
01051	3/16X1/8 MIPT COMP CONN	EA	43	.59
01052	1/4X1/8 MIPT COMP CONN	EA	43	.54
01053	1/4X1/4 MIPT COMP CONN	EA	43	.78
01054	5/16X1/8 MIPT COMP CONN	EA	43	.70
01055	5/16X1/4 MIPT COMP CONN	EA	43	.82
01057	3/8X1/4 MIPT COMP CONN	EA	43	.75
01058	3/8X3/8 MIPT COMP CONN	EA	43	1.03
01059	1/2X3/8 MIPT COMP CONN	EA	43	1.38
01060	1/8X1/8 FIPT COMP CONN	EA	43	.78
01061	3/16X1/8 FIPT COMP CONN	EA	43	.70
01062	1/4X1/8 FIPT COMP CONN	EA	43	.73
01063	1/4X1/4 FIPT COMP CONN	EA	43	1.03
01064	5/16X1/8 FIPT COMP CONN	EA	43	3.12
01065	5/16X1/4 FIPT COMP CONN	EA	43	3.40
01067	3/8X1/4 FIPT COMP CONN	EA	43	1.07
01070	1/8X1/8 MIPT COMP ELBOW	EA	43	.88
01071	3/16X1/8 MIPT COMP ELBOW	EA	43	.93
01072	1/4X1/8 MIPT COMP ELBOW	EA	43	.82
01073	1/4X1/4 MIPT COMP ELBOW	EA	43	1.03
01074	5/16X1/8 MIPT COMP ELBOW	EA	43	1.13
01075	5/16X1/4 MIPT COMP ELBOW	EA	43	1.15
01077	3/8X1/4 MIPT COMP ELBOW	EA	43	1.18
01078	3/8X3/8 MIPT COMP ELBOW	EA	43	1.54
01079	1/2X3/8 MIPT COMP ELBOW	EA	43	2.16
01080	1/8X1/8 MIPT COMP TEE	EA	43	1.96
01081	3/16X1/8 MIPT COMP TEE	EA	43	1.66
01082	1/4X1/8 MIPT COMP TEE	EA	43	1.46
01084	5/16X1/8 MIPT COMP TEE	EA	43	1.96
01087	3/8X1/4 MIPT COMP TEE	EA	43	2.35
01089	1/2X3/8 MIPT COMP TEE	EA	43	4.49

PART	DESCRIPTION	UOM	PAGE	PRICE
01353	TE 1 5-50V POC TESTER	EA	80	5.26
01354	TE 2 POC TESTER	EA	80	2.30
01355	TE-3 POCKET TESTER	EA	80	6.88
01385	1/2 & 3/4 TUBE & FITTING BRUSH	EA	77	10.43
01386	1/2 REPLACEMENT BRUSH	EA	77	4.37
01387	5/8 REPLACEMENT BRUSH	EA	77	4.37
01395	5/8 & 3/4 TUBE & FITTING BRUSH	EA	77	10.43
01396	3/4 REPLACEMENT BRUSH	EA	77	4.37
01397	7/8 REPLACEMENT BRUSH	EA	77	4.37
01409	FIN COMB 9 & 15 FPI	EA	76	1.09
01444	TUBE PIERCING PLIERS	EA	75	20.90
01445	FIN COMB 11 & 13 FPI	EA	76	1.09
01446	FIN COMB 16 & 17 FPI	EA	76	1.05
01447	FIN COMB 18 & 20 FPI	EA	76	1.10
01448	FIN COMB 6,7,12, & 14 FPI	EA	76	1.05
01450	E 2 TESTER	EA	14	23.56
01451	FIN COMB 4,5,8, & 10 FPI	EA	76	1.05
01458	5/8" OD STRAINER	EA	34	1.64
01459	3/4" OD STRAINER	EA	34	1.64
01465	CAP TUBE REPL KIT	EA	38	6.65
01468	LINE TAP VALVE 3/16 TO 3/8	EA	18	3.22
01469	LINE TAP VALVE 1/2 TO 5/8	EA	18	3.72
01470	CONT VALVE FOR 1474 TO 1479	EA	18	4.90
01474	3/16" OD LINE TAP VALVE	EA	18	2.03
01475	1/4" OD LINE TAP VALVE	EA	18	2.03
01476	5/16" OD LINE TAP VALVE	EA	18	2.03
01477	3/8" OD LINE TAP VALVE	EA	18	2.03
01478	1/2" OD LINE TAP VALVE	EA	18	2.03
01479	5/8" OD LINE TAP VALVE	EA	18	2.03
01484	SET OF 3 TERMINAL SEALS	SET	13	4.03
01485	SET OF HEX & SCREW DRIVERS	SET	82	8.53
01498	BOTTLE RUST ELIMINATOR	EA	66	1.31
01499	BOTTLE LUB OIL TELE SPOUT	EA	66	1.13
01502	TAP VALVE FOR REF CANS	EA	18	4.62
01503	GASKET FOR 1502	EA	18	.16
01508	LINE TAP VALVE 1/4 TO 3/8	EA	18	2.20
01509	LINE TAP VALVE 1/2 TO 5/8	EA	18	2.28
01510	HANDLE FOR #1485	EA	82	1.86
01514	EAC-800 LINEBACKER MOTOR PROT	EA	0	115.46
01517	EAC-801 LINEBACKER MOTOR PROT	EA	0	105.21
01518	EAC-802 LINEBACKER MOTOR PROC	EA	0	109.88
01524	1/8 HEX REPL WRENCH FOR #1485	EA	82	1.29
01525	5/32 HEX REPL WRENCH FOR #1485	EA	82	1.29
01549	1/8"OD 2" TUBE ACCESS FTG	EA	18	1.10
01550	3/16"OD 2" TUBE ACCESS FTG	EA	18	1.20
01551	1/4"OD 2" TUBE ACCESS FTG	EA	18	1.40
01557	TG100M THRM GRD	EA	30	10.56
01563	5 MINUTE SHORT CYCLE PROTECTOR	EA	17	25.92
01565	120V SHORT CYCLE PROTECTOR	EA	17	44.10
01566	240V SHORT CYCLE PROTECTOR	EA	17	48.10
01567	LOW VOLT & SHORT CYCLE PROTECT	EA	17	57.85
01568	LINE BACKER	EA	17	55.35
01569	LINE BACKER	EA	17	72.08
01570	LINE BACKER	EA	17	72.08
01571	LINE BACKER	EA	17	72.08
01572	120V PLUG IN PROTECTOR MONITOR	EA	17	74.46
01576	230V PLUG IM PROTECTOR MONITOR	EA	17	73.35
01579	BROWN OUT POWER FAILURE PROTEC	EA	17	12.88
01580	ACC VLV 1/4-5/16-3/8 OD TUBE	EA	18	1.72
01581	ACC VALVE 3/8-1/2 OD TUBE	EA	18	1.81
01582	SHORT CYCLE HI-LO VOLT PH CONT	EA	17	105.21
01583	SHRT CYCLE HI-LO VOLT PH CONTR	EA	17	99.11
01584	DISC BY MFG SUB 01582	EA	17	105.21
01585	CONNECT ALL 3/16" TUBE PKG-2	PKG	38	11.08
01586	CONNECT ALL 1/4" TUBE PKG-2	PKG	38	11.08
01587	CONNECT ALL 5/16" TUBE PKG-2	PKG	38	12.91
01588	CONNECT ALL 3/8" TUBE PKG-2	PKG	38	14.03
01590	SHRT CYCLE HI-LO VOLT PH CONTR	EA	17	143.61
01592	BRWN OUT POWER FAILURE PROTECT	EA	17	17.25
01593	BRWN OUT POWER FAILURE PROTECT	EA	17	17.25
01598	REFRIGERATION OIL PUMP	EA	17	41.49
01704	4 OZ HIGH VIS LIQ LEAK DETECTO	EA	0	1.30
01705	ADJ TIME DELAY EAC-505	EA	0	11.39
01706	ADJ TIME DELAY EAC-705	EA	0	11.39
01708	8 OZ HIGH VIS LIQ LEAK DETECTO	EA	0	1.95
01740	ALARM MODULE ATD-1	EA	0	33.87
01741	REFRIG LOSS MODULE&UNIT RLMK1	EA	0	60.14
01742	REFRIG LOSS MONITOR&UNIT RLMK2	EA	0	65.43
01743	REFRIG LOSS MONITOR UNIT 1 SWT	EA	0	23.03
01744	RLM UNIT W/2 SWITCH	EA	0	29.26
01758	POL EX HEAVY STEM	EA	68	7.67
01760	BATTERY OPERATED POCKET CAPACT	EA	0	19.53
01765	DISC BY MFG	EA	69	3.29
01773	MC TANK HANDLE	EA	68	15.52
01776	POL LIGHT STEM	EA	68	7.22
01777	POL MEDIUM STEM	EA	68	7.22
01778	POL HEAVY STEM	EA	68	7.22
01781	MC TANK EXCHANGE	EA	68	6.83
01783	B TANK EXCHANGE	EA	68	9.96
01785	MC TANK OUTRIGHT SALE	EA	68	87.26
01787	B TANK OUTRIGHT SALE	EA	68	128.52
01790	B TANK REG TO MC TANK	EA	68	7.65
02000	032 FLARE DRIER 1/4 SAE	EA	33	4.62
02001	052 FLARE DRIER 1/4 SAE	EA	33	6.07
02002	053 FLARE DRIER 3/8 SAE	EA	33	6.07
02003	082 FLARE DRIER 1/4 SAE	EA	33	6.59
02004	083 FLARE DRIER 3/8 SAE	EA	33	6.75
02005	162 FLARE DRIER 1/4 SAE	EA	33	9.14
02006	163 FLARE DRIER 3/8 SAE	EA	33	9.38
02007	164 FLARE DRIER 1/2 SAE	EA	33	9.61
02008	165 FLARE DRIER 5/8 SAE	EA	33	9.14
02009	303 FLARE DRIER 3/8 SAE	EA	33	15.10
02010	304 FLARE DRIER 1/2 SAE	EA	33	15.23
02011	305 FLARE DRIER 5/8 SAE	EA	33	15.32
02012	413 FLARE DRIER 3/8 SAE	EA	33	21.67
02014	415 FLARE DRIER 5/8 SAE	EA	33	21.91
02015	PENCIL DRYER DISC BY MFGNO SUB	EA	33	1.85
02030	SUC LINE DRIER 3/8 SAE	EA	33	15.26
02031	SUC LINE DRIER 1/2 SAE	EA	33	15.26
02032	SUC LINE DRIER 3/8 ODS	EA	33	15.26

PART	DESCRIPTION	UOM	PAGE	PRICE
02033	SUC LINE DRIER 1/2 ODS	EA	33	15.26
02034	SUC LINE DRIER 5/8 ODS	EA	33	26.12
02035	SUC LINE DRIER 3/4 ODS	EA	33	28.28
02036	SUC LINE DRIER 7/8 ODS	EA	33	28.28
02037	SUC LINE DRIER 1 1/8 ODS	EA	33	34.22
02038	SUC LINE DRIER 1 3/8 ODS	EA	33	46.64
02039	SUC LINE DRIER 1 5/8 ODS	EA	33	57.08
02307	STRAINER 5/8 ODS	EA	34	1.52
02308	STRAINER 3/8 ODS	EA	34	1.52
02346	CK VLV 1/4SAE 1/8 3/16 1/4ODS	EA	42	8.71
02347	CK VLV 3/8SAE 1/4 5/16 3/8ODS	EA	42	8.97
02348	CK VLV 1/2SAE 3/8 3/16 1/2ODS	EA	42	9.22
02351	STRAIN/O/KAP 1/4 SAE	EA	38	6.09
02352	STRAIN/O/KAP 1/4 ODS	EA	38	4.51
02371	TORPEDO LEVEL	EA	74	7.71
02459	DISC BY MFG	EA	19	.45
02469	DISC BY MFG	EA	19	.57
02480	DISC BY MFG	EA	19	.91
02608	LT8100-12 RECORDER FOR TEMP	EA	89	213.09
02659	Y 25 AMPROBE JR	EA	88	39.53
02663	Y 550 AMPROBE JR	EA	88	39.53
02665	Y 500 AMPROBE JR	EA	88	39.53
02678	P1 CASE FOR 2659-63-65	EA	88	8.43
02688	RS1000 AMPROBE	EA	88	94.08
02690	RS 1 AMPROBE	EA	88	55.39
02692	RS 2 AMPROBE	EA	88	55.39
02693	RS 3 AMPROBE	EA	88	71.27
02694	OHB 3R BATT FPR # 2693	EA	88	8.42
02695	G CASE FOR #2690-2693	EA	88	12.40
02709	850A CHARTS FOR AMPS	EA	89	3.97
02711	830AV600 CHARTS FOR VOLTS	EA	89	3.97
02712	823T1 CHARTS FOR TEMP	EA	89	3.97
02713	CHARTS FOR TEMP	EA	89	3.97
02716	FLRBT3 REST BULB	EA	89	31.60
02718	CHARTS FOR VOLTS	EA	89	3.97
02719	RECORDER FOR VOLT & AMP	EA	89	267.64
02721	BT 18 BEARING TOL	EA	78	40.59
02727	RECORDER FOR AMPS	EA	89	193.26
02730	RECORDER FOR VOLTS	EA	89	188.30
02741	PT TIPS PKG OF 4	PKG	88	.94
02759	VL11R LEADS	EA	88	5.80
02760	VLK411R LEADS	EA	88	8.77
02766	TM63 KIT	EA	88	98.04
02768	CASE FOR 2690-2693	EA	88	15.37
02776	VT100 VOLT PROBE	EA	88	16.37
02783	VT124 VOLT PROBE	EA	88	25.29
02784	CASE FOR 2776-2783	EA	88	5.80
02787	RECORDER FOR VOLT & AMPS	EA	89	297.40
02795	RBT 12 PROBE	EA	89	17.70
02796	RBT 11 PROBE	EA	89	17.71
02797	RBT 13 AIR PROBE	001	89	17.70
02840	1 3/8 OD FITTING BRUSH	EA	77	2.72
02882	3/8 OD BRASS WIRE TUBE BRUSH	EA	77	3.20
02883	7/16 OD BRASS WIRE TUBE BRUSH	EA	77	3.52
02884	1/2 OD BRASS WIRE TUBE BRUSH	EA	77	3.68
02885	9/16 OD BRASS WIRE TUBE BRUSH	EA	77	3.68
02886	5/8 OD BRASS WIRE TUBE BRUSH	EA	77	3.68
02888	1/2 OD FITTING BRUSH	EA	77	2.40
02889	5/8 OD FITTING BRUSH	EA	77	2.40
02890	1/4 OD FITTING BRUSH	EA	77	1.52
02891	3/8 OD FITTING BRUSH	EA	77	1.52
02897	3/4 OD FITTING BRUSH	EA	77	2.48
02898	7/8 OD FITTING BRUSH	EA	77	2.48
02899	1 1/8 OD FITTING BRUSH	EA	77	2.56
02901	24" EXTENSION FOR BRUSH	EA	77	2.72
02902	36" EXTENSION FOR BRUSH	EA	77	3.01
02903	02026 BROOM	EA	77	.77
02904	3/8 OD NYLON TUBE BRUSH	EA	77	2.00
02905	HANDGRIP 1/2" DIA X 4" LONG	EA	77	1.81
02906	1/2 OD NYLON TUBE BRUSH	EA	77	2.40
02907	9/16 OD NYLON TUBE BRUSH	EA	77	2.40
02911	3/8 OD ST STEEL TUBE BRUSH	EA	77	3.65
02913	1/2 OD ST STEEL TUBE BRUSH	EA	77	3.68
02915	5/8 OD ST STEEL TUBE BRUSH	EA	77	3.97
02933	1/4 OD BRUSH TO CLEAN CU TUBE	EA	77	2.05
02934	3/8 OD BRUSH TO CLEAN CU TUBE	EA	77	2.05
02935	1/2 OD BRUSH TO CLEAN CU TUBE	EA	77	2.05
02936	5/8 OD BRUSH TO CLEAN CU TUBE	EA	77	2.37
03047	SILBER FLUX 7 OZ BOTTLE	EA	67	2.68
03049	1 LB SILVER FLUX	EA	67	4.52
03056	4 OZ STAY CLEAN FLUX	EA	67	2.11
03057	16 OZ STAY CLEAN FLUX	EA	67	3.46
03058	1 GAL STAY CLEAN FLUX	EA	67	15.57
03059	4 OZ ALUM FLUX	EA	67	3.89
03060	1/8DIAM 1#STAY BRITE SILV SLDR	EA	67	26.18
03061	1/16DIAM 1#STAY BRITE SILV SDR	EA	67	26.26
03064	1/8 DIAM 1#STAY BRITE #8	EA	67	27.54
03100	1#SPOL 1/8" DIA 95/5 SOLDER	EA	67	12.92
03102	1#SPOL 1/8" DIA 50/50 SOLDER	EA	67	7.25
03104	1#SPOL 1/16"ROS CORE 60/40 SLD	EA	67	8.75
03105	5#SPOL 1/16"ROS CORE 60/40 SLD	EA	67	43.77
03106	1#SPOL 1/8"AC CORE 40/60 SLD	EA	67	6.47
03107	5#SPOL 1/8"AC CORE 40/60 SLD	EA	67	32.35
03109	1#SPOL 1/16"ROS CORE 40/60 SLD	EA	67	6.47
03138	5#SPOL 1/8" WIRE 95/5 SOLDER	EA	67	64.62
03139	5#SPOL 1/8" 50/50 SOLDER	EA	67	36.24
03140	SAFETY SILV 1305 1/32" 1 T.OZ	001	66	9.93
03141	SAFETY SILV1305 3/64" 1T.OZ.	EA	66	8.10
03142	SAFETY SILV1305 3/64" 5 T.OZ.	EA	66	35.73
03143	SAFETY SILV 1305 1/16" 1 T.OZ	001	66	7.94
03144	SAFETY SILV 1305 1/16" 5 T.OZ.	EA	66	34.77
03145	SAFETY SILV 1350G 1/16" 1T.OZ	EA	66	7.30
03146	SAFETY SILV 1350G 1/16" 5 T.OZ	EA	66	33.91
03147	SAFETY SILV 1410 1/16" 1 T.OZ.	EA	66	6.04
03148	SAFETY SILV 1410 1/16" 5 T.OZ.	EA	66	26.90
03152	3/8" FLUX BRUSH	EA	67	.05
03165	1/16RD 20" 1#NO SILV CU SOLDER	EA	67	6.83
03167	3/32RDX20" 1# NO SILVER CU SLD	EA	67	6.23
03182	SOLDER FLUX	EA	67	.60
03183	1 LB CAN SOLDER FLUX	EA	67	3.90

PART	DESCRIPTION	UOM	PAGE	PRICE
03198	3/4 X 66' ELECT TAPE	EA	51	1.06
03200	1/2 OD V1B ELIMINATOR	EA	20	6.56
03201	5/8 OD VIB ELIMINATOR	EA	20	7.46
03202	3/4 OD VIB ELIMINATOR	EA	20	10.22
03203	7/8 OD VIB ELIMINATOR	EA	20	10.22
03204	1 1/8 OD VIB ELIMINATOR	EA	20	14.00
03205	1 3/8 OD VIB ELIMINATOR	EA	20	19.46
03206	1 5/8 OD VIB ELIMINATOR	EA	20	27.94
03207	2 1/8 OD VIB ELIMINATOR	EA	20	47.12
03220	1LB BRAZING ALLOY QUICK SLV	PKG	66	10.43
03221	1LB BRAZING ALLOY DYNAFLOW	PKG	66	22.32
03228	REGULAR PIPETITE STICK SELL 12	EA	65	.29
03229	FLUX STICK	EA	67	1.07
03238	1/4 OD VIB ELIMINATOR	EA	20	5.65
03239	3/8 OD VIB ELIMINATOR	EA	20	6.03
03249	5 OZ CAD FREE 1/16" SILV SLDR	EA	66	40.35
03254	1/2LJARHANDYFLUX	EA	67	4.23
03255	1LB JAR HANDYFLUX	EA	67	7.40
03274	1 OZ CAD FREE 1/16" SILV SLDR	PKG	66	8.63
03280	1/4LB 15% SILVER BRZ ALLOY	PKG	66	8.01
03281	1LB 15% SILVER BRZ ALLOY	PKG	66	29.91
03282	1/4LB 15% SILVER BRZ ALLOY	PKG	66	7.32
03283	1LB 15% SILVER BRZ ALLOY	EA	66	29.22
03287	1LB 5% SILVER BRZ ALLOY	EA	66	14.38
03289	1 LB 5% SILVER BRZ ALLOY	EA	66	14.38
03301	1/4 SAE LONG FL NUT	EA	41	.68
03302	5/16 SAE LONG FL NUT	EA	41	.59
03303	3/8 SAE LONG FL NUT	EA	41	.84
03305	1/2 SAE LONG FL NUT	EA	41	1.06
03306	5/8 SAE LONG FL NUT	EA	41	1.62
03307	3/4 SAE LONG FL NUT	EA	41	2.81
03310	3/16 MSAE SHT FL NUT	EA	41	.18
03311	1/4 SAE SHT FL NUT	EA	41	.29
03312	5/16 SAE SHT FL NUT	EA	41	.44
03313	3/8 SAE SHT FL NUT	EA	41	.57
03315	1/2 SAE SHT FL NUT	EA	41	.77
03316	5/8 SAE SHT FL NUT	EA	41	1.08
03317	3/4 SAE SHT FL NUT	EA	41	2.02
03330	3/16 SAE FL UNION	EA	41	.62
03331	1/4 SAE FL UNION	EA	41	.35
03332	5/16 SAE FL UNION	EA	41	.59
03333	3/8 SAE FL UNION	EA	41	.76
03335	1/2 SAE FL UNION	EA	41	1.28
03336	5/8 SAE FL UNION	EA	41	1.99
03337	3/4 SAE FL UNION	EA	41	3.97
03341	1/4 SAE FL TEE	EA	42	.86
03342	5/16 SAE FL TEE	EA	42	1.34
03343	3/8 SAE FL TEE	EA	42	1.63
03345	/12 SAE FL TEE	EA	42	2.41
03346	5/8 SAE FL TEE	EA	42	3.77
03347	3/4 SAE FL TEE	EA	42	8.04
03351	1/4 SAE FL CROSS	EA	41	3.52
03353	3/8 SAE FL CROSS	EA	41	4.36
03360	3/16 SAE FL ELBOW	EA	40	1.27
03361	1/4 SAE FL ELBOW	EA	40	.96
03362	5/16 SAE FL ELBOW	EA	40	.94
03363	3/8 SAE FL ELBOW	EA	40	1.44
03365	1/2 SAE FL ELBOW	EA	40	1.99
03366	5/8 SAE FL ELBOW	EA	40	2.65
03367	3/4 SAE FL ELBOW	EA	40	5.80
03371	1/4 FE SAE CONNECTOR	EA	41	1.17
03373	3/8 FE SAE CONNECTOR	EA	41	1.75
03375	1/2 FE SAE CONNCETOR	EA	41	2.37
03376	5/8 FE SAE CONNECTOR	EA	41	3.53
03377	3/4 FE SAE CONNECTOR	EA	41	7.18
03378	1/4 FIPT X 1/4 FE SAE CONNECT	EA	41	1.28
03379	U6 4B CONNECTOR	EA	41	1.61
03380	3/16 SAE FL PLUG	EA	41	.50
03381	1/4 SAE FL PLUG	EA	41	.43
03382	5/16 SAE FL PLUG	EA	41	.62
03383	3/8 SAE FL PLUG	EA	41	.75
03385	1/2 SAE FL PLUG	EA	41	1.06
03386	5/8 SAE FL PLUG	EA	41	1.71
03387	3/4 SAE FL PLUG	EA	41	3.43
03390	3/16 SAE FL CAP NUT	EA	41	.27
03391	1/4 SAE FL CAP NUT	EA	41	.25
03392	5/16 SAE FL CAP NUT	EA	41	.40
03393	3/8 SAE FL CAP NUT	EA	41	.42
03395	1/2 SAE FL CAP NUT	EA	41	.65
03396	5/8 SAE FL CAP NUT	EA	41	.95
03397	3/4 SAE FL CAP NUT	EA	41	2.21
03400	3/16SAE X 1/8MPT HALF UNION	EA	41	.31
03401	1/4SAE X 1/8MPT HALF UNION	EA	41	.29
03402	1/4SAE X 1/4MPT HALF UNION	EA	41	.44
03403	1/4SAE X 3/8MPT HALF UNION	EA	41	.90
03404	5/16SAE X 1/8MPT HALF UNION	EA	41	.40
03405	5/16SAE X 1/4MPT HALF UNION	EA	41	.70
03406	5/16SAE X3/8MPT HALF UNION	EA	41	1.19
03407	3/8SAE X 1/8MPT HALF UNION	EA	41	.70
03408	3/8SAE X 1/4MPT HALF UNION	EA	41	.55
03409	3/8SAE X 3/8MPT HALF UNION	EA	41	.79
03411	1/2SAE X 1/4MPT HALF UNION	EA	41	1.34
03412	1/2SAE X 3/8MPT HALF UNION	EA	41	.90
03413	1/2SAE X 1/2MPT HALF UNION	EA	41	1.11
03414	5/8SAE X 3/8MPT HALF UNION	EA	41	1.60
03415	5/8SAE X 1/2MPT HALF UNION	EA	41	1.21
03416	3/4SAE X 1/2MPT HALF UNION	EA	41	2.71
03417	3/4SAE X 3/4MPT HALF UNION	EA	41	2.81
03418	5/8SAE X 3/4MPT HALF UNION	EA	41	2.07
03419	DISC BY MFG	EA	41	3.03
03420	3/16 SAE X 1/8MPT ELBOW	EA	40	.65
03421	1/4SAE X 1/8MPT ELBOW	EA	40	.63
03422	1/4SAE X 1/4MPT ELBOW	EA	40	.79
03423	1/4SAE X 3/8MPT ELBOW	EA	40	1.67
03424	5/16SAE X 1/8MPT ELBOW	EA	40	.77
03425	5/16SAE 1/4MPT ELBOW	EA	40	.84
03426	5/16SAE X 3/8MPT ELBOW	EA	40	1.75
03427	3/8SAE X 1/8MPT ELBOW	EA	40	1.17
03428	3/8SAE X 1/4MPT ELBOW	EA	40	.94
03429	3/8SAE X 3/8MPT ELBOW	EA	40	1.21

PART	DESCRIPTION	UOM	PAGE	PRICE
03431	1/2SAE X 1/4MPT ELBOW	EA	40	1.87
03432	1/2SAE X 3/8MPT ELBOW	EA	40	1.44
03433	1/2SAE X 1/2MPT ELBOW	EA	40	2.09
03434	5/8SAE X 3/8MPT ELBOW	EA	40	3.35
03435	5/8SAE X 1/2MPT ELBOW	EA	40	2.41
03436	3/4SAE X 1/2MPT ELBOW	EA	40	4.47
03438	5/8SAE X 3/4MPT ELBOW	EA	40	4.42
03441	1/4SAE X 1/8MPT TEE	EA	42	1.15
03442	1/4SAE X 1/4MPT TEE	EA	42	2.24
03444	5/16 SAE X1/8MPT TEE	EA	42	1.65
03447	DISC BY MFG	EA	42	2.30
03448	3/8SAE X 1/4MPT TEE	EA	42	2.31
03449	3/8SAE X 3/8MPT TEE	EA	42	2.85
03452	1/2SAE X 3/8MPT TEE	EA	42	3.16
03453	1/2SAE X 1/2MPT TEE	EA	42	3.93
03455	5/8SAE X 1/2MPT TEE	EA	42	3.30
03461	1/4SAE X 1/8MPT TEE	EA	42	1.05
03462	1/4SAE X 1/4MPT TEE	EA	42	1.53
03465	5/16SAE X 1/4MPT TEE	EA	42	2.30
03468	3/8SAE X 1/4MPT TEE	EA	42	1.99
03469	3/8SAE X 3/8MPT TEE	EA	42	2.31
03472	1/2SAE X 3/8MPT TEE	EA	42	3.04
03473	1/2SAE X 1/2MPT TEE	EA	42	4.36
03474	5/8SAE X 3/8MPT TEE	EA	42	2.92
03475	5/8SAE X 1/2MPT TEE	EA	42	4.15
03480	3/16SAE X 1/8FIPT HALF UNION	EA	41	.63
03481	1/4SAE X 1/8FIPT HALF UNION	EA	41	.42
03482	1/4SAE X 1/4FIPT HALF UNION	EA	41	.79
03483	1/4SAE X 3/8FIPT HALF UNION	EA	41	1.67
03484	5/16SAE X 1/8FIPT HALF UNION	EA	41	.79
03485	5/16SAE X 1/4FIPT HALF UNION	EA	41	.96
03488	3/8SAE X 1/4FIPT HALF UNION	EA	41	.86
03489	3/8SAE X 3/8FIPT HALF UNION	EA	41	1.06
03491	1/2SAE X 1/4FIPT HALF UNION	EA	41	1.71
03492	1/2SAE X 3/8FIPT HALF UNION	EA	41	1.17
03493	1/2SAE X 1/2FIPT HALF UNION	EA	41	1.49
03494	5/8SAE X 3/8FIPT HALF UNION	EA	41	2.59
03495	5/8SAE X 1/2FIPT HALF UNION	EA	41	1.54
03498	5/8SAE X 3/4FIPT HALF UNION	EA	41	3.23
03501	1/4SAE X 1/8FIPT ELBOW	EA	40	.79
03502	1/4SAE X 1/4FIPT ELBOW	EA	40	1.28
03508	3/8SAE X 1/4FIPT ELBOW	EA	40	1.65
03509	3/8SAE X 3/8FIPT ELBOW	EA	40	2.06
03512	1/2SAE X 3/8FIPT ELBOW	EA	40	2.12
03513	1/2SAE X 1/2FIPT ELBOW	EA	40	3.11
03519	1/4SAE X 3/16SAE RE UNION	EA	41	1.27
03520	5/16SAE X 1/4SAE RE UNION	EA	41	1.29
03521	3/8SAE X 1/4SAE RE UNION	EA	41	1.56
03522	3/8SAE X 1/4SAE RE UNION	EA	41	1.57
03524	1/2SAE X 1/4SAE RE UNION	EA	41	1.94
03525	1/2SAE X 3/8SAE RE UNION	EA	41	1.99
03527	5/8SAE X 1/2SAE RE UNION	EA	41	2.96
03528	3/4SAE X 1/2SAE RE UNION	EA	41	4.72
03531	3/8SAE X 1/4SAE RE ELBOW	EA	40	2.09
03535	1/2SAE X 3/8SAE RE ELBOW	EA	40	2.86
03537	5/8SAE X 1/2SAE RE ELBOW	EA	40	3.65
03539	3/4SAE X 5/8SAE RE ELBOW	EA	40	7.87
03560	5/16FE SAE X 1/4SAE FL RED	EA	41	2.02
03561	3/8FE SAE X 1/4SAE FL RED	EA	41	2.19
03562	3/8FE SAE X 5/16SAE FL RED	EA	41	2.21
03564	1/2FE SAE X 1/4SAE FL RED	EA	41	2.23
03565	1/2FE SAE X 3/8SAE FL RED	EA	41	2.81
03567	5/8FE SAE X 1/2SAE FL RED	EA	41	3.90
03569	3/4FE SAE X 5/8SAE FL RED	EA	41	6.75
03571	1/4FE SAE X 3/8SAE FL RED	EA	41	1.67
03574	1/2FE SAE X 1/2SAE FL RED	EA	41	2.01
03575	3/8FE SAE X 1/2SAE FL RED	EA	41	2.24
03577	1/2FE SAE X 5/8SAE FL RED	EA	41	2.91
03578	1/2FE SAE X 3/4SAE FL RED	EA	41	4.12
03579	5/8FE SAE X 3/4SAE FL RED	EA	41	4.03
03581	3/8SAE FOR 1/4 TUBE FL NUT RED	EA	41	.95
03585	1/2SAE FOR 3/8 TUBE FL NUT	EA	41	1.26
03587	1/2SAE FOR 3/8 TUBE FL NUT RED	EA	41	1.81
03589	3/4SAE FOR 5/8 TUBE NUT	EA	41	3.79
03591	1/4SAE FE SWIVEL NUT COUPLG	EA	41	2.29
03592	5/16SAE FE SWIVEL NUT COUPLG	EA	41	2.46
03593	3/8SAE FE SWIVEL NUT COUPLG	EA	41	2.67
03595	1/2SAE FE SWIVEL NUT COUPLG	EA	41	3.01
03596	5/8SAE FE SWIVEL NUT COUPLG	EA	41	4.09
03600	3/16SAE SEAL CAP COPPER	EA	42	.16
03601	1/4 SAE SEAL CAP COPPER	EA	42	.16
03602	5/16 SAE SEAL CAP COPPER	EA	42	.22
03603	3/8 SAE SEAL CAP COPPER	EA	42	.22
03605	1/2 SAE SEAL CAP COPPER	EA	42	.27
03606	5/8 SAE SEAL CAP COPPER	EA	42	.40
03607	3/4 SAE SEAL CAP COPPER	EA	42	.63
03640	1/8 FE 1PT ELBOW BRASS	EA	42	1.05
03641	1/4 FE 1PT ELBOW BRASS	EA	42	1.49
03642	3/8 FE 1PT ELBOW BRASS	EA	42	2.95
03643	1/2 FE 1PT ELBOW BRASS	EA	42	4.46
03645	1/8 FE 1PT TEE BRASS	EA	42	1.05
03646	1/4 FE 1PT TEE BRASS	EA	42	1.49
03647	3/8 FE 1PT TEE BRASS	EA	42	2.95
03648	1/2 FE 1PT TEE BRASS	EA	42	4.26
03655	1/8 FE 1PT COUPLG BRASS	EA	42	.42
03656	1/4 FE 1PT COUPLG BRASS	EA	42	.76
03657	3/8 FE 1PT COUPLG BRASS	EA	42	1.39
03658	1/2 FE 1PT COUPLG BRASS	EA	42	1.76
03665	1/8 FE 1PT ELBOW BRASS	EA	42	.65
03666	1/4 FE 1PT ELBOW BRASS	EA	42	.96
03667	3/8 FE 1PT ELBOW BRASS	EA	42	1.62
03668	1/2 FE 1PT ELBOW BRASS	EA	42	2.66
03669	1/4FIPT X 1/8MIPT RE ST ELBOW	EA	42	1.56
03670	1/8M X 1/8F 45 DEGREE ST ELBOW	EA	42	.77
03671	1/4M X 1/4F 45 DEGREE ST ELBOW	EA	42	1.28
03672	3/8M X 3/8F 45 DEGREE ST ELBOW	EA	42	1.81
03720	1/4SAE X 1/4MPT ANGLE VALVE	EA	44	8.10
03724	3/8SAE X 3/8MPT ANGLE VALVE	EA	44	9.49
03725	1/2SAE X 3/8MPT ANGLE VALVE	EA	44	10.75
03726	5/8SAE X 1/2MPT ANGLE VALVE	EA	44	17.89
03740	1/4 SAE SHUT OFF VALVE	EA	44	12.37
03870	1/8 MIPT PLUG BRASS	EA	42	.23
03871	1/4 MIPT PLUG BRASS	EA	42	.37
03872	3/8 MIPT PLUG BRASS	EA	42	.77
03873	1/2 MIPT PLUG BRASS	EA	42	1.10
03874	1/8 X 1/8MIPT HEX NIPPLE	EA	42	.35
03875	1/4 X 1/4 MIPT HEX NIPPLE	EA	42	.57
03876	1/4 X 1/8 MIPT HEX NIPPLE	EA	42	.79
03877	3/8 X 1/4 MIPT HEX NIPPLE	EA	42	1.30
03878	3/8 X 3/8 MIPT HEX NIPPLE	EA	42	.88
03879	1/2 X 1/2 MIPT HEX NIPPLE	EA	42	2.10
03880	1/4 MALE X 1/8 FE 1PT BUSHING	EA	42	.37
03881	3/8 MALE X 1/4 FE 1PT BUSHING	EA	42	.55
03882	3/8 MALE X 1/8 FE 1PT BUSHING	EA	42	.65
03883	1/2 MALE X 3/8 FE 1PT BUSHING	EA	42	.96
03884	1/2 MALE X 1/4 FE 1PT BUSHING	EA	42	1.03
03886	3/4 MIPT PLUG BRASS	EA	42	3.45
03887	1/8 MIPT 168 DEGREE SAF PLUG	EA	41	1.57
03888	1/4 MIPT 168 DEGREE SAF PLUG	EA	41	2.01
03889	3/8 MIPT 168 DEGREE SAF PLUG	EA	41	2.59
03890	1/4 FE X 1/8 MIPT ADAPTER	EA	42	.79
03891	3/8 FE X 1/4 MIPT ADAPTER	EA	42	1.39
03892	1/2 FE X 3/8 MIPT ADAPTER	EA	42	2.41
03894	1/4 X 1/8 FE 1PT ADAPTER	EA	42	.88
03895	3/8 X 1/4 FE 1PT ADAPTER	EA	42	1.21
03896	1/2 X 3/8 FE 1PT ADAPTER	EA	42	2.24
03897	3/4 MALE X 1/2 FIPT BUSHING	EA	42	1.53
03898	3/4 MALE X 3/8 FIPT BUSHING	EA	42	1.84
04200	1/4 SAE X 1/4 ODS UNION	EA	41	1.13
04201	1/4 SAE X 3/8 ODS UNION	EA	41	1.40
04202	3/8 SAE X 3/8 ODS UNION	EA	41	1.47
04203	3/8 SAE X 1/2 ODS UNION	EA	41	1.57
04204	1/2 SAE X 1/2 ODS UNION	EA	41	1.64
04205	3/8 SAE SWIVEL NUT ELBOW	EA	40	4.44
04206	1/2 SAE SWIVEL NUT ELBOW	EA	40	5.22
04207	5/8 SAE SWIVEL NUT ELBOW	EA	40	7.73
04208	1/4 SAE X 1/4 ODS SWVL NUT CON	EA	41	1.47
04209	3/8 SAE X 3/8 ODS SWVL NUT CON	EA	41	1.66
04210	1/2 SAE X 1/2 ODS SWVL NUT CON	EA	41	2.15
04211	5/8 SAE X 5/8 ODS SWVL NUT CON	EA	41	2.53
04242	SET OF 6 RATCHET WRENCHS 299F	EA	82	109.58
04245	1/2 OD TUBE BENDER	EA	75	60.75
04246	5/8 OD TUBE BENDER	EA	75	109.78
04247	3/4 OD TUBE BENDER	EA	75	132.14
04261	1/4 FE SAE X 1/8 MIPT CONN	EA	41	2.15
04262	1/4 FE SAE X 1/4 MIPT CONN	EA	41	2.15
04268	3/8 FE SAE X 1/4 MIPT CONN	EA	41	2.91
04300	TUBE CUTTER 227FA	EA	74	12.13
04312	CUTTING WHEEL	EA	74	2.97
04314	SCREW FOR 4312	EA	74	1.03
04350	1/4 OD SWAGE TOOL	EA	76	3.86
04351	5/16 OD SWAGE TOOL	EA	76	4.62
04352	3/8 OD SWAGE TOOL	EA	76	4.28
04353	1/2 OD SWAGE TOOL	EA	76	5.56
04354	5/8 OD SWAGE TOOL	EA	76	6.85
04355	3/4 OD SWAGE TOOL	EA	76	8.79
04356	SWAGE TOOL KIT 195 SA	EA	76	44.06
04390	1/4 OD TUBE BENDER	EA	75	35.05
04391	5/16 OD TUBE BENDER	EA	75	44.16
04392	3/8 OD TUBE BENDER	EA	75	39.56
04400	3/16 OD SWAGE TOOL	EA	76	4.17
04403	SET OF 4 SWAGE TOOLS	EA	76	16.23
04405	7/8 OD SWAGE TOOL	EA	76	10.26
04422	1/8 FIPT X 1/8 MIPT VALVE	EA	45	11.24
04423	1/4 FIPT X 1/4 MIPT VALVE	EA	45	10.77
04425	1/4 FIPT X 1/4 FIPT VALVE	EA	45	12.26
04434	1/4 OD COMP NEEDLE VALVE	EA	45	4.89
04436	3/8 OD COMP NEEDLE VALVE	EA	45	8.61
04437	1/8 MIPT NEEDLE VALVE	EA	45	5.47
04438	1/4 MIPT NEEDLE VALVE	EA	45	6.09
04450	7/8 OD TUBE BENDER	EA	75	199.57
04451	TUBE BENDING KIT 7 SIZES	EA	75	525.78
04453	90-370 24V RELAY	EA	15	10.45
04500	5/16 SAE TO 1/4 OD TUBE RE NUT	EA	41	.72
04501	3/8 SAE TO 1/4 OD TUBE RE NUT	EA	41	.72
04502	3/8 SAE TO 5/16 OD TUBE RE NUT	EA	41	.88
04505	1/2 SAE TO 3/8 OD TUBE RE NUT	EA	41	.92
04507	5/8 SAE TO 1/2 OD TUBE RE NUT	EA	41	1.32
04509	3/4 SAE TO 5/8 OD TUBE RE NUT	EA	41	2.46
04513	1/4 SAE TO 3/16 OD TUBE RE NUT	EA	41	.72
04622	2871 REFRIG. RATCHET WRENCH	EA	83	15.27
05021	1/4SAE X 1/4SAE X 3/8SAE TEE	EA	42	2.66
05025	TR2 668 3/8X1/2 T	EA	42	2.38
05026	TR2 6610 3/8X5/8	EA	42	4.66
05027	TR2 8810 1/2X5/8	EA	42	4.16
05040	DISC BY MFG	EA	44	7.00
05041	DISC BY MFG	EA	44	7.00
05042	DISC BY MFG	EA	44	6.38
05044	DISC BY MFG	EA	44	7.87
05052	DISC BY MFG	EA	44	7.00
05053	DISC BY MFG	EA	44	7.00
05054	DISC BY MFG	EA	44	7.87
05170	1/4 POLY-FLO TO 1/4 COMP CONN	EA	39	1.65
05172	1/4 POLY-FLO 1/8 MIPT CONN	EA	39	.96
05173	1/4 POLY-FLO 1/4 MIPT CONN	EA	39	1.19
05174	1/4 POLY-FLO 1/8 FIPT CONN	EA	39	1.03
05175	1/4 POLY-FLO 1/4 FIPT CONN	EA	39	1.52
05176	1/4 POLY-FLO 1/8 MIPT ELBOW	EA	39	1.03
05177	1/4 POLY-FLO 1/4 MIPT ELBOW	EA	39	1.52
05178	1/4 POLY-FLO TEE	EA	39	3.01
05179	1/4 POLY-FLO 1/8 MPT TEE	EA	39	2.50
05180	1/4 POLY-FLO 1/4 MPT TEE	EA	39	3.20
05181	1/4 POLY-FLO 1/8 MPT TEE	EA	39	2.35
05182	1/4 POLY-FLO 1/4 MPT TEE	EA	39	2.98
05183	1/4 POLY-FLO PLASTIC SLEEVE	EA	39	.02
05184	1/4 POLY-FLO NUT & SLEEVE	EA	39	.38
05185	1/4" 100' ROLL POLY-FLO TBE NA	EA	39	9.73
05186	1/4"100' ROLL POLY-FLO TUBE BL	EA	39	9.73
05191	1/4 POLY-FLO TUBE RACK	EA	38	1.55
05192	3/8"100' ROLL POLY-FLO NAT	EA	39	18.36

PART	DESCRIPTION	UOM	PAGE	PRICE
05193	3/8" 100' ROLL POLY-FLO BLK	EA	39	18.36
05198	3/8 POLY-FLO TUBE RACK	EA	38	2.75
05200	3/8 POLY-FLO TO 3/8 COMP CONN	EA	39	2.09
05201	3/8 POLY-FLO UNION	EA	39	5.31
05202	3/8 POLY-FLO X 1/8 MIPT CONN	EA	39	1.34
05203	3/8 POLY-FLO X 1/4 MIPT CONN	EA	39	1.38
05204	3/8 POLY-FLO X 3/8 MIPT CONN	EA	39	1.65
05205	3/8 POLY-FLO X 1/4 FIPT CONN	EA	39	1.64
05206	3/8 POLY-FLO X 1/8 MIPT ELBOW	EA	39	1.64
05207	3/8 POLY-FLO X 1/4 MIPT ELBOW	EA	39	1.54
05208	3/8 POLY-FLO X 3/8 MIPT ELBOW	EA	39	2.35
05209	3/8 POLY-FLO TEE	EA	39	3.38
05210	3/8 POLY-FLO X 1/4 MIPT TEE	EA	39	3.50
05211	3/8 POLY-FLO X 1/8 MIPT TEE	EA	39	4.47
05212	3/8 POLY-FLO X 1/4 MIPT TEE	EA	39	2.88
05213	3/8 POLY-FLO PLASTIC SLEEVE	EA	39	.04
05214	3/8 POLY-FLO NUT	EA	39	.44
05304	HANG OR STAND THERM	EA	54	2.62
05306	THERM	EA	54	2.87
05307	335 REFG THERM	EA	54	2.62
05308	DIAL OVEN THERN	EA	54	1.58
05309	3270-05 TANK THERM	EA	54	14.26
05310	250 OUTDOOR THERM	EA	55	1.90
05311	265 WINDOW THERM	EA	55	1.54
05312	HYDROMETER IN-OUT THERM	EA	55	6.85
05313	264 WALL THERM	EA	55	1.08
05314	272 IN & OUT THERM	EA	55	3.88
05319	1236-17 1" POCK THERM 25-125 F	EA	55	8.55
05320	1231-14 50 TO 550	EA	55	8.55
05321	1236-31 -40 TO 180 F	EA	55	8.55
05322	1236-32 O-220F POCK THERM 1"	EA	55	8.55
05326	O TO 220 2" DIAL 8" STEM	EA	55	11.61
05327	25 TO 125 2" DIAL 8"STEM	EA	55	12.26
05328	50 TO 550 2"DIAL 8 'STEM	EA	55	12.26
05330	PSP-2 -30 TO 110F SLING PSY	EA	55	24.07
05331	PSP-T1 REFILL THERM	EA	55	4.60
05332	SPPT-2 -30 TO 120 F	EA	54	2.48
05333	SSPT-3 -50 TO 120 F	EA	54	2.48
05334	SPPT-5 O TO 220 F	EA	54	2.48
05335	-45 TO + 50C	EA	54	2.48
05336	SPPT-8 -15 TO 105C	EA	54	2.48
05337	SPPT-1 -30TO 120F	EA	54	2.48
05338	SPPT-4 O TO +220 F	EA	54	2.48
05339	SPPT-7 -35 TO 50 C	EA	54	2.48
05340	SPPT-9 -15 TO + 105C	EA	54	2.48
05341	PTOO6 -50 TO + 120F	EA	54	3.37
05342	PTOO7 O TP 220F	EA	54	3.37
05343	PTOO8 -45 TO + 50 C	EA	54	3.37
05344	PTO13 -15 TO 105C	EA	54	3.37
05345	PTOO1 -30 TO 120F	EA	54	3.37
05346	PTOO3 O TO 220 F	EA	54	3.37
05347	PTOO4 -35 TO +50 C	EA	54	3.37
05348	PTOO5 -15 TO +105 C	EA	54	3.37
05349	PT101 THERM	EA	54	10.20
05350	PT104 THERM	EA	54	12.80
05351	PT107 THERM	EA	54	4.33
05352	D-5008 -60 TO 120 F	EA	55	7.57
05354	D 5009 O TO 220F 1 3/4	EA	55	7.57
05355	4158 -20 TO 150C THERM	EA	54	10.87
05356	4162 -30 150F THERM	EA	54	4.33
05357	4163 O TO 230F THERM	EA	54	10.81
05358	4164 O TO 300F THERM	EA	54	4.33
05359	4165 20 TO 500F THERM	EA	54	13.56
05360	4145 -20 TO 110C THERM	EA	54	4.33
05361	4147 -10 TO 260 C THERM	EA	54	13.25
05362	4150 -30 TO 120 F THERM	EA	54	4.33
05363	4151 O TO 230F THERM	EA	54	10.81
05364	4152 O TO 300F THERM	EA	54	4.33
05365	4154 20 TO 750F THERM	EA	54	17.38
05367	DIG FLGE MT THERM	EA	54	22.54
05368	DM PANEL MT DIG.	EA	54	32.76
05369	2" DIG POCKETTHERM	EA	54	15.91
05370	DP 1 3/8 DIG THERM	EA	54	14.45
05371	PANEL MT DIG THERM	EA	54	44.09
05372	P/MT DIG THERM	EA	54	56.69
05374	2" DEEP FREEZE REMOTE THERM	EA	54	21.37
05380	110 V POWER SUP	EA	54	19.75
05381	SCREW IN PROBE	EA	54	61.27
05382	GEN PUR. PROBE	EA	54	17.97
05390	O TO 220 REFILL THERM	EA	54	8.33
05391	+100 TO 300 F REFILL THERM	EA	54	8.81
05392	-15 TO 105 REFILL THERM	EA	54	7.55
05400	1/4 SAE X 1/2 MIPT HALF UNION	EA	41	1.60
05401	3/8 SAE X 1/2 MIPT HALF UNION	EA	41	1.07
05404	1/2 SAE X 3/4MIPT HALF UNION	EA	41	2.23
05405	5/8 SAE X 1/4 MIPT HALF UNION	EA	41	2.29
05421	3/8 SAE X 1/2 MIPT ELBOW	EA	40	2.15
05424	1/2 SAE X 3/4 MIPT ELBOW	EA	40	2.40
05460	T1 4D 1/4X1/2 TEE	EA	42	3.89
05461	3/8 SAE X 1/2 MIPT TEE	EA	42	2.31
05520	1/2SAE X 5/16SAE RE UNION	EA	41	1.77
05521	DISC BY MFG	EA	41	2.66
05522	5/8SAE X 3/8SAE RE UNION	EA	41	2.94
05574	5/16FE SAE X 3/8SAE FL REDUCER	EA	41	2.02
05638	1/2FIPT X 1/4SAE REF CLY CONN	EA	42	3.32
05639	3/4FIPT X 1/4SAE REF CLY CONN	EA	42	3.32
05664	3/4FIPT X 3/8SAE REF CLY CONN	EA	42	4.93
05666	1/2" GASKET FOR 5638	EA	42	.09
05667	3/4" GASKET FOR 5639-5664	EA	42	.09
05920	1/2ODS X 3/8IDS BUSHING	EA	39	.36
05921	5/8ODS X 3/8IDS BUSHING	EA	39	.37
05922	5/8ODS X 1/2IDS BUSHING	EA	39	.37
05923	3/4ODS X 3/8IDS BUSHING	EA	39	.61
05924	3/4ODS X 1/2IDS BUSHING	EA	39	.61
05925	3/4ODS X 5/8IDS BUSHING	EA	39	.61
05926	7/8ODS X 1/2IDS BUSHING	EA	39	.46
05927	7/8ODS X 5/8IDS BUSHING	EA	39	.46
05928	7/8ODS X 3/4IDS BUSHING	EA	39	.46
05929	1 1/8ODS X 1/2IDS BUSHING	EA	39	.81
05930	1 1/8ODS X 5/8IDS BUSHING	EA	39	.81
05931	1 1/8ODS X 7/8IDS BUSHING	EA	39	.81
05932	1 3/8ODS X 5/8IDS BUSHING	EA	39	1.16
05933	1 3/8ODS X 7/8IDS BUSHING	EA	39	1.16
05934	1 3/8ODS X 1 1/8IDS BUSHING	EA	39	1.16
05935	1 5/8ODS X 5/8IDS BUSHING	EA	39	1.51
05936	1 5/8ODS X 7/8IDS BUSHING	EA	39	1.51
05937	1 5/8ODS X 1 1/8IDS BUSHING	EA	39	1.51
05938	1 5/8ODS X 1 3/8IDS BUSHING	EA	39	1.51
05939	2 1/8ODS X 5/8IDS BUSHING	EA	39	2.90
05940	2 1/8ODS X 7/8IDS BUSHING	EA	39	2.90
05941	2 1/8ODS X 1 1/8IDS BUSHING	EA	39	2.90
05942	2 1/8ODS X 1 3/8IDS BUSHING	EA	39	2.90
05943	2 1/8ODS X 1 5/8IDS BUSHING	EA	39	2.90
06025	2 JAW WHEEL PULLER	EA	78	9.89
06067	CENTER PUNCH	EA	74	3.33
06104	1 1/4" DIA RUBBER MOUNT	EA	62	1.54
06105	2" DIA RUBBER MOUNT	EA	62	1.65
06109	1 5/8' DIA RUBBER MOUNT	EA	62	.79
06200	1 3/8 ODS TUBE COUPLING	EA	40	.91
06201	1 5/8 ODS TUBE COUPLING	EA	40	.91
06202	2 1/8 ODS TUBE COUPLING	EA	40	1.82
06203	3/8 ODS TUBE COUPLING	EA	40	.08
06205	1/2 ODS TUBE COUPLING	EA	40	.28
06206	5/8 ODS TUBE COUPLING	EA	40	.12
06207	3/4 ODS TUBE COUPLING	EA	40	.37
06208	7/8 ODS TUBE COUPLING	EA	40	.21
06209	1 1/8 ODS TUBE COUPLING	EA	40	.52
06210	1/2 ODS X 3/8 ODS RE COUPLING	EA	40	.33
06211	5/8 ODS X 3/8 ODS RE COUPLING	EA	40	.37
06212	5/8 ODS X 1/2 ODS RE COUPLING	EA	40	.37
06213	3/4 ODS X 1/2 ODS RE COUPLING	EA	40	.58
06214	3/4 ODS X 5/8 ODS RE COUPLING	EA	40	.58
06215	7/8 ODS X 1/2 ODS RE COUPLING	EA	40	.41
06216	7/8 ODS X 5/8 ODS RE COUPLING	EA	40	.41
06217	1 1/8 ODS X 1/2 ODS RE COUPLG	EA	40	.76
06218	W1051 1 1/8 X 5/8	EA	40	.72
06219	1 1/2 ODS X 7/8 ODS RE COUPLG	EA	40	.76
06220	1 3/8 ODS X 5/8 ODS RE COUPLG	EA	40	1.16
06221	1 3/8 ODS X 7/8 ODS RE COUPLG	EA	40	1.16
06222	1 3/8 ODS X 1 1/8 ODS RE COUPL	EA	40	1.16
06223	3/8 ODS ELBOW	EA	39	.53
06224	1 5/8 ODS X 5/8 ODS RE COUPLG	EA	40	1.79
06225	1/2 ODS ELBOW	EA	39	.36
06226	5/8 ODS ELBOW	EA	39	.13
06227	3/4 ODS ELBOW	EA	39	.93
06228	7/8 ODS ELBOW	EA	39	.30
06229	1 1/8 ODS ELBOW	EA	39	.72
06230	3/8 ODS X 1/4 ODS RE ELBOW	EA	39	.74
06231	1/2 ODS X 1/4 ODS RE ELBOW	EA	39	1.29
06232	1/2 ODS X 3/8 ODS RE ELBOW	EA	39	1.22
06233	3/4 ODS X 3/8 ODS RE COUPLG	EA	40	.58
06234	7/8 ODS X 3/4 ODS RE COUPLG	EA	40	.39
06235	1 5/8 ODS X 7/8 ODS RE COUPLG	EA	40	1.79
06236	7/8 ODS X 5/8 ODS RE ELBOW	EA	39	.85
06237	1 5/8 ODS X 1 1/8 ODS RE COUPL	EA	40	1.79
06238	1 5/8 ODS X 1 3/8 ODS RE COUPL	EA	40	1.79
06239	1 1/8 ODS X 7/8 ODS RE ELBOW	EA	39	1.34
06241	2 1/8 ODS X 5/8 ODS RE COUPL	EA	40	2.77
06242	2 1/8 ODS X 7/8 ODS RE COUPLG	EA	40	2.77
06244	2 1/8 ODS X 1 1/8 ODS RE COUPL	EA	40	2.77
06245	2 1/8 ODS X 1 3/8 ODS RE COUPL	EA	40	2.77
06246	2 1/8 ODS X 1 5/8 ODS RE COUPL	EA	40	2.77
06248	1 3/8 ODS ELBOW	EA	39	1.43
06249	1 5/8 ODS ELBOW	EA	39	1.78
06250	2 1/8 ODS ELBOW	EA	39	3.36
06252	1 1/8 ODS X 5/8 ODS RE ELBOW	EA	39	1.34
06269	1 5/8 ODS X 1 1/8 ODS RE ELBOW	EA	39	5.66
06279	3/4 ODS X 3/4 FIPT ADAPTER	EA	40	1.10
06280	3/8 ODS X 1/4 ODS FIPT ADAPTER	EA	40	.99
06282	1/2 ODS X 1/4 FIPT ADAPTER	EA	40	.92
06283	1/2 ODS X 3/8 FIPT ADAPTER	EA	40	1.07
06284	1/2 ODS X 1/2 FIPT ADAPTER	EA	40	.79
06285	1/2 ODS X 3/4 FIPT ADAPTER	EA	40	1.10
06286	5/8 ODS X 3/8 FIPT ADAPTER	EA	40	.79
06287	5/8 ODS X 1/2 FIPT ADAPTER	EA	40	.52
06288	5/8 ODS X 3/4 FIPT ADAPTER	EA	40	1.10
06293	7/8 ODS X 1/2 FIPT ADAPTER	EA	40	1.10
06294	7/8 ODS X 3/4 FIPT ADAPTER	EA	40	.73
06295	7/8 ODS X 1 FIPT ADAPTER	EA	40	2.52
06297	1 1/8 ODS X 3/4 FIPT ADAPTER	EA	40	2.52
06298	1 1/8 ODS X 1 FIPT ADAPTER	EA	40	1.46
06300	3/8 ODS X 1/4 MIPT ADAPTER	EA	40	1.61
06301	3/8 ODS X 3/8 MIPT ADAPTER	EA	40	1.61
06302	1/2 ODS X 1/4 MIPT ADAPTER	EA	40	1.61
06303	1/2 ODS X 3/8 MIPT ADAPTER	EA	40	.79
06304	1/2 ODS X 1/2 MIPT ADAPTER	EA	40	.88
06305	1/2 ODS X 3/4 MIPT ADAPTER	EA	40	.94
06306	5/8 ODS X 3/8 MIPT ADAPTER	EA	40	.88
06307	5/8 ODS X 1/2 MIPT ADAPTER	EA	40	.29
06308	5/8 ODS X 3/4 MIPT ADAPTER	EA	40	.94
06310	3/4 ODS X 1/2 MIPT ADAPTER	EA	40	1.73
06311	3/4 ODS X 3/4 MIPT ADAPTER	EA	40	.94
06313	7/8 ODS X 1/2 MIPT ADAPTER	EA	40	.94
06314	7/8 ODS X 3/4 MIPT ADAPTER	EA	40	.46
06315	7/8 ODS X 1 MIPT ADAPTER	EA	40	2.07
06317	1 1/8 ODS X 3/4 MIPT ADAPTER	EA	40	2.07
06318	1 1/8 ODS X 1 MIPT ADAPTER	EA	40	1.38
06319	1 1/8 ODS X 1 1/4 MIPT ADAPTER	EA	40	3.05
06322	1 3/8 ODS X 1 MIPT ADAPTER	EA	40	3.05
06323	3/8 ODS TEE	EA	39	1.13
06325	1/2 ODS TEE	EA	39	.86
06326	5/8 ODS TEE	EA	39	.24
06327	3/4 ODS TEE	EA	39	1.70
06328	7/8 ODS TEE	EA	39	.53
06329	1 1/8 ODS TEE	EA	39	1.97
06330	1/2 ODS X 1/2 ODS X 3/8 ODS TE	EA	39	1.53
06331	5/8ODS X 5/8ODS X 3/8ODS TEE	EA	39	1.32
06332	5/8ODS X 5/8ODS X 1/2ODS TEE	EA	39	1.32
06333	5/8ODS X 5/8ODS X 7/8ODS TEE	EA	39	1.23
06334	3/4ODS X 3/4ODS X 3/8ODS TEE	EA	39	2.17

PART	DESCRIPTION	UOM	PAGE	PRICE
06335	7/8ODS X 7/8ODS X 1/2ODS TEE	EA	39	.50
06336	7/8ODS X 7/8ODS X 5/8ODS TEE	EA	39	.98
06338	1 1/8ODS X 11/8ODS X 5/8ODS TE	EA	39	1.97
06339	1 1/8ODS X 1 1/8ODS X 7/8ODS T	EA	39	1.97
06340	3/4ODS X 3/4ODS X 1/2ODS TEE	EA	39	2.17
06341	3/4ODS X 3/4ODS X 5/8ODS TEE	EA	39	2.17
06342	7/8ODS X 7/8ODS X 3/4ODS TEE	EA	39	.98
06343	1 1/8ODS X 1 1/8ODS X 3/4ODS T	EA	39	1.97
06350	1 3/8ODS X 1 3/8ODS X 5/8ODS T	EA	39	2.87
06353	1 5/8ODS X 1 5/8ODS X 5/8ODS T	EA	39	3.27
06360	5/8ODS X 1 MIPT ADAPTER	EA	40	2.07
06362	1 3/8 ODS X 1 1/4 MIPT ADAPTER	EA	40	2.07
06363	1 3/8 ODS X 1 1/2 MIPT ADAPTER	EA	40	3.78
06367	1 5/8 ODS X 1 1/2 MIPT ADAPTER	EA	40	2.37
06371	2 1/8 ODS X 2 MIPT ADAPTER	EA	40	3.80
06376	1 3/8 ODS TEE	EA	39	2.98
06377	1 5/8 ODS TEE	EA	39	4.14
06378	2 1/8 ODS TEE	EA	39	6.50
06384	1 3/8 ODS X 1 1/4 FIPT ADAPTER	EA	40	2.40
06389	1 5/8 ODS X 1 1/2 FIPT ADAPTER	EA	40	3.78
06393	2 1/2 ODS X 2 FIPT ADAPTER	EA	40	5.05
06400	3/8 FIPT VALVE	EA	44	2.76
06401	1/2 FIPT VALVE	EA	44	2.26
06402	3/4 FIPT VALVE	EA	44	2.46
06404	1/2 FIPT VALVE WITH WASTE	EA	44	2.42
06405	3/4 FIPT VALVE WITH WASTE	EA	44	2.64
06406	3/8 FIPT ANGLE VALVE	EA	44	3.59
06407	1/2 FIPT ANGLE VALVE	EA	44	3.24
06408	3/4 FIPT ANGLE VALVE	EA	44	3.59
06412	1/2 ODS SOLDER VALVE	EA	44	2.61
06413	5/8 ODS SOLDER VALVE	EA	44	2.43
06414	7/8 ODS SOLDER VALVE	EA	44	2.32
06415	1/2 ODS VALVE WITH WASTE	EA	44	2.79
06416	5/8 ODS VALVE WITH WASTE	EA	44	2.12
06417	3/4 MON VALVE	EA	44	2.57
06418	777 1/2NOM. VALVE	EA	44	3.07
06419	7/8 ODS ANGLE VALVE	EA	44	3.43
06424	1/2 MIPT BOILER DRAIN VALVE	EA	43	2.03
06425	3/4 MIPT BOILER DRAIN VALVE	EA	43	2.34
06426	1/2 FIPT CHECK VALVE	EA	43	11.30
06427	3/4 FIPT CHECK VALVE	EA	43	13.79
06428	1/2 FIPT GATE VALVE	EA	43	9.46
06430	3/4 FIPT GATE VALVE	EA	43	11.82
06437	3/8 OD TUBE COPPER STRAP	EA	53	.08
06438	1/2 OD TUBE COPPER STRAP	EA	53	.08
06440	5/8 OD TUBE COPPER STRAP	EA	53	.08
06441	7/8 OD TUBE COPPER STRAP	EA	53	.16
06442	1 1/8 OD TUBE COPPER STRAP	EA	53	.18
06443	1 3/8 OD TUBE COPPER STRAP	EA	53	.23
06444	1 5/8 OD TUBE COPPER STRAP	EA	53	.25
06445	2 1/8 OD TUBE COPPER STRAP	EA	53	.27
06452	1 1/8 ODS SOLDER VALVE	EA	44	9.63
06454	25A 2" CART FUSETRON	EA	53	2.18
06455	30A 2" CART FUSETRON	EA	53	2.18
06456	35A 3" CART FUSETRON	EA	53	4.00
06458	3/8 FIPT GATE VALVE	EA	43	10.64
06459	1 FIPT GATE VALVE	EA	43	15.09
06460	60A 3" CART FUSETRON	EA	53	4.00
06461	1 1/4 FIPT GATE VALVE	EA	43	21.96
06462	1 1/2 FIPT GATE VALVE	EA	43	25.80
06466	3/8 FIPT CHECK VALVE	EA	43	11.30
06469	1FIPT CHECK VALVE	EA	43	18.83
06481	FUSTAT SWITCH HANDY BOX COVER	EA	53	5.93
06483	DISC BY MFG	EA	53	6.28
06484	FUSTAT RECEPTACLE BOX COVER	EA	53	5.93
06506	2 AMP PLUG FUSETRON	EA	53	1.98
06510	3.2 AMP PLUG FUSETRON	EA	53	1.98
06512	4 AMP PLUG FUSETRON	EA	53	1.98
06514	5 AMP PLUG FUSETRON	EA	53	1.98
06516	6.25 AMP PLUG FUSETRON	EA	53	1.98
06518	8 AMP PLUG FUSETRON	EA	53	1.98
06520	10 AMP PLUG FUSETRON	EA	53	1.98
06521	12 AMP PLUG FUSETRON	EA	53	1.98
06522	15 AMP PLUG FUSETRON	EA	53	1.00
06523	20AMP PLUG FUSETRON	EA	53	1.00
06524	25 AMP PLUG FUSETRON	EA	53	1.00
06525	30 AMP PLUG FUSETRON	EA	53	1.00
06529	AGX 1 BUSS FUSE	001	88	.29
06552	15 AMP 2" CART FUSETRON	EA	53	2.18
06554	20 AMP 2" CART FUSETRON	EA	53	2.18
06556	15 AMP FUSTAT	EA	53	1.06
06557	20 AMP FUSTAT	EA	53	1.06
06559	30 AMP FUSTAT	EA	53	1.06
06566	2 AMP FUSTAT	EA	53	2.00
06570	3.2 AMP FUSTAT	EA	53	2.00
06574	5 AMP FUSTAT	EA	53	2.00
06576	6.25 AMP FUSTAT	EA	53	2.00
06578	8 AMP FUSTAT	EA	53	2.00
06580	10 AMP FUSTAT	EA	53	2.00
06700	35 AMP 3" CART FUSE	EA	53	1.07
06701	40 AMP 3" CART FUSE	EA	53	1.07
06702	45 AMP 3" CART FUSE	EA	53	1.07
06704	60 AMP 3" CART FUSE	EA	53	1.07
06708	100 AMP BLADE CART FUSE	EA	53	4.62
06734	15 AMP 2" CART FUSE	EA	53	.67
06735	20 AMP 2" CART FUSE	EA	53	.67
06737	30AMP 2" CART FUSE	EA	53	.67
06800	40 AMP 3" CART FUSETRON	EA	53	4.00
06801	45 AMP 3" CART FUSETRON	EA	53	4.00
06802	50 AMP 3" CART FUSETRON	EA	53	4.00
07000	3/8OD TYPE K 1/4NOM C&C 10FT	LGT	38	2.90
07001	10FT 1/2OD TYPE K C&C	LGT	38	4.71
07002	10FT TYPE K C&C 5/8OD1/2 NOM	LGT	38	5.70
07003	10FT TYPE K C&C 3/4OD 5/8 NOM	LGT	38	7.58
07004	10FT TYPE K 7/8OD 3/4 NOM C&C	LGT	38	10.16
07005	10FT TYPE K C&C 1 1/8OD 1NOM	LGT	38	13.62
07006	10FT TYPE K C&C 1 3/8OD 11/4NM	LGT	38	17.19
07007	10FT TYPE K C&C 1 5/8OD11/2NOM	LGT	38	21.87
07008	10FT TYPE K C&C 2 1/8OD 2 NOM	LGT	38	33.86
07009	10FT TYPE K C&C 2 5/8OD 21/2NM	LGT	38	49.15

PART	DESCRIPTION	UOM	PAGE	PRICE
07021	10FT ACR C&C 1/2OD 3/8NOM	LGT	38	3.55
07022	10FT ACR C&C 5/8OD 1/2 NOM	LGT	38	4.67
07023	10FT ACR C&C 3/4 OD 5/8NOM	LGT	38	5.51
07024	10FT ACR C&C 7/8 OD 3/4 NOM	LGT	38	7.37
07025	10FT ACR C&C 1 1/8OD 1 NOM	LGT	38	10.72
07026	10FT ACR C&C 1 3/8OD 1 1/4NOM	LGT	38	14.21
07027	10FT ACR C&C 1 5/8OD 1 1/2NOM	LGT	38	17.93
07028	10FT ACR C&C 2 1/8OD 2 NOM	LGT	38	27.90
07029	10FT ACR C&C 2 5/8OD 2 1/2NOM	LGT	38	40.08
07041	10FT TYPE M 1/2 OD 3/8 NOM	LGT	38	2.51
07042	10FT TYPE M 5/8OD 1/2 NOM	LGT	38	3.22
07044	10FT TYPE M 7/8 OD 3/4 NOM	LGT	38	5.14
07045	10FT TYPE M 1 1/8 OD 1 NOM	LGT	38	7.52
07050	20 FT 1/4 NOM3/8 OD K C&C	LGT	38	5.80
07051	20 FT TYPE K 3/8NOM 1/2 OD C&C	LGT	38	9.43
07052	20 FT TYPE K 1/2NOM 5/8 OD C&C	LGT	38	11.40
07053	5/8NOM 3/4OD 20FT TYPE K C &C	LGT	38	15.16
07054	3/4NOM 7/8OD 20FT TYPE K C&C	LGT	38	20.31
07055	20FT TYPE K 1 1/8OD 1NOM C&C	LGT	38	27.25
07056	20FT 1 3/8OD 1 1/4NOM TYPEK CC	LGT	38	34.38
07057	20FT 1 5/8OD TYPE K C&C 11/2NM	LGT	38	43.74
07058	20FT 21/8OD TYPE K C&C 2NOM	LGT	38	67.72
07059	20FT 25/8OD TYPE K C&C 2 1/2NM	LGT	38	98.30
07061	20FT ACR C&C 1/2OD 3/8 NOM	LGT	38	7.10
07062	20FT 5/8OD ACR C&C 1/2NOM	LGT	38	9.33
07063	20FT ACR C&C 3/4OD 5/8NOM	LGT	38	11.02
07064	20FT ACR C&C 7/8OD 3/4NOM	LGT	38	14.74
07065	20FT ACR C&C 11/8OD 1NOM	LGT	38	21.45
07066	20FT ACR C&C 13/8OD 11/4NOM	LGT	38	28.41
07067	20FT ACR C&C 15/8OD 11/2NOM	LGT	38	28.41
07068	20FT ACR C&C 21/8OD 2 NOM	LGT	38	55.79
07069	20FT ACR C&C 2 5/8OD 2 1/2NOM	LGT	38	80.16
07071	20FT TYPE M 1/2OD 3/8 NOM	LGT	38	5.02
07072	20FT TYPE M 5/8OD 1/2 NOM	LGT	38	6.45
07074	20FT TYPE M 7/8 OD 3/4 NOM	LGT	38	10.27
07075	20FT TYPE M 1 1/8OD 1 NOM	LGT	38	15.03
07312	1/8 X 4" SQUARE KEYS	EA	62	.24
07313	3/16 X 4" SQUARE KEYS	EA	62	.16
07314	1/4 X 4" SQUARE KEYS	EA	62	.25
07391	1/2 BORE 2" DIA FLX COUPLG	EA	64	8.53
07392	5/8 BORE X 2" DIA FLX COUPLG	EA	64	8.53
07393	3/4 BORE X 2" DIA FLX COUPLG	EA	64	8.53
07442	7/8 BORE 4.15 OD VAR PULLET	EA	62	17.89
07443	7/8 BORE 4.75 OD VAR PULLEY	EA	62	21.82
07444	7/8 BORE 5.35 OD VAR PULLEY	EA	62	29.38
07445	7/8 BORE 3.25 OD VAR PULLEY	EA	62	12.03
07446	7/8 BORE 3.75 OD VAR PULLEY	EA	62	12.85
07850	1/2 OD X 1/4 ID BUSHING	EA	62	2.46
07851	1/2OD X 5/16ID BUSHING	EA	62	2.46
07852	1/2OD X 3/8ID BUSHING	EA	62	2.46
07854	5/8OD X 1/2ID BUSHING	EA	62	2.46
07856	3/4OD X 1/2ID BUSHING	EA	62	2.46
07858	3/4OD X 5/8ID BUSHING	EA	62	2.46
07860	1OD X 5/8ID BUSHING	EA	62	3.09
07861	1OD X 3/4ID BUSHING	EA	62	3.09
07863	1OD X 7/8ID BUSHING	EA	62	3.09
07865	1 1/4OD X 1ID BUSHING	EA	62	3.70
07870	1/2 BORE 3.25OD VAR PULLEY	EA	62	6.18
07871	1/2 BORE 3.75OD VAR PULLEY	EA	62	7.55
07872	1/2 BORE 4.15OD VAR PULLEY	EA	62	9.57
07873	1/2 BORE 4.75OD VAR PULLEY	EA	62	15.58
07880	5/8 BORE 3.25OD VAR PULLEY	EA	62	6.18
07881	5/8 BORE 3.75OD VAR PULLEY	EA	62	7.55
07882	5/8 BORE 4.15OD VAR PULLEY	EA	62	9.57
07883	5/8 BORE 4.75OD VAR PULLEY	EA	62	15.58
07890	3/4 BORE 3.25OD VAR PULLEY	EA	62	6.18
07892	3/4 BORE 4.15 BORE VAR PULLEY	EA	62	9.57
07893	3/4 BORE 4.75 BORE VAR PULLEY	EA	62	15.58
07904	P.O.L. DET REACTION PLATE	EA	69	3.19
08019	7/8OD X 5/8ID BUSHING	EA	62	2.78
08029	7/8OD X 3/4ID BUSHING	EA	62	2.78
08037	1 1/8OD X 1ID BUSHING	EA	62	3.55
08100	100FT CAP TUBE .026ID .072OD	EA	38	10.30
08101	100FT CAP TUBE .031ID .083OD	EA	38	12.58
08110	3/16OD 50FT COPPER TUBING	EA	38	5.90
08111	1/4OD 50FT COPPER TUBING	EA	38	7.20
08112	5/16OD 50FT COPPER TUBING	EA	38	9.22
08113	3/8OD 50FT COPPER TUBING	EA	38	10.63
08115	1/2OD 50FT COPPER TUBING	EA	38	13.56
08120	1/2 BORE HUB FOR FAN	EA	63	8.48
08121	5/8 BORE HUB FOR FAN	EA	63	8.48
08127	1/8OD 50FT COPPER TUBING	EA	38	5.96
08128	100FT CAP TUBE .044ID .109OD	EA	38	18.21
08129	100FT CAP TUBE .050ID .114OD	EA	38	18.72
08149	100FT CAP TUBE .055ID .125OD	EA	38	22.54
08156	5/8 OD 50FT COPPER TUBING	EA	38	18.21
08157	3/4OD 50FT COPPER TUBING	EA	38	21.25
08159	7/8OD 50FT COPPER TUBING	EA	38	31.42
08160	1 1/8OD 50FT COPPER TUBING	EA	38	46.28
08162	1 3/8OD 50FT COPPER TUBING	EA	38	63.67
08164	5/8OD 60FT K SOFT COPPER	EA	38	32.11
08167	3/4OD 60FT K SOFT COPPER	EA	38	36.81
08168	7/8OD 60FT K SOFT COPPER	EA	38	50.39
08169	1 1/8OD 60FT K SOFT COPPER	EA	38	67.21
08178	100FT CAP TUBE .036ID .087OD	EA	38	13.25
08188	100FT CAP TUBE .064ID .125OD	EA	38	20.72
08189	100FT CAP TUBE .070ID .125OD	EA	38	19.74
08192	100FT CAP TUBE .080ID .125OD	EA	38	26.24
08516	DISC BY MFG	EA	54	2.82
08517	DISC BY MFG	EA	54	2.82
08518	-30/120F POCKET THERMOMETER	EA	54	2.97
08519	0/220F POCKET THERMOMETER	EA	54	2.70
08560	-40/110F MULTI-ANGLE THERMOMTR	EA	55	32.80
08561	-10/180F MULT-ANGLE THERMOMETR	EA	55	32.80
08562	30/240F MULT-ANGLE THERMOMETR	EA	55	32.80
08563	30/300F MULT-ANGLE THERMOMETR	EA	55	32.80
08564	50/400F MULT-ANGLE THERMOMETER	EA	55	32.80
08565	-40/110F MULT-ANGLE THERMOMETR	EA	55	33.60
08566	-10/180F MULT-ANGLE THERMOMETR	EA	55	33.60
08567	30/240F MULT-ANGLE THERMOMETER	EA	55	33.60

PART	DESCRIPTION	UOM	PAGE	PRICE
08568	30/300F MULT ANGLE THERMOMETR	EA	55	33.60
08580	30/180F 4 1/2DIA DIAL THERMOMT	EA	54	206.33
08581	30/240F 4 1/2DIA DIAL THERMOMT	EA	54	206.34
08582	-40/150F 4 1/2DIA DIAL THERMOM	EA	54	206.34
08583	BRASS WELL FOR 8580-8582	EA	54	7.31
08590	REPL WASHER FOR 7391-7393	EA	64	2.15
08593	REPL WASHER FOR 859L	EA	64	4.40
08596	1" BORE 2 3/4DIA FLX COUPLG	EA	64	23.98
08671	SILICA GEL 1.5LB CAN	EA	33	5.85
08672	SILICA GEL 6.37LB CAN	EA	33	18.47
08674	SILICA GEL 25LB CAN	EA	33	66.15
08707	HEAVY DUTY OILER	EA	79	9.88
08710	G14382 0-30 1/4" IPT GAUGE	EA	84	4.31
08711	G14383 0-60 GAUGE	EA	84	4.31
08712	G14422 0-100 GAUGE	EA	84	4.31
08713	G14384 0-100 GAUGE	EA	84	4.31
08714	G14423 0 TO 160 GAUGE	EA	84	4.31
08715	G14385 0 160	EA	84	4.31
08716	G14386 0 TO 200	EA	84	4.31
08717	G14425 0 TO 300	EA	84	4.31
08718	G14387 GAUGE	EA	84	4.31
08719	G10046 0 TO 30	EA	84	7.85
08720	G10047 0-60 GAUGE	EA	84	7.85
08721	G10048 0 TO 100 GAUGE	EA	84	7.85
08722	G10049 0 TO 160 GAUGE	EA	84	7.85
08723	G14491 0 TO 30 GAUGE	EA	84	4.59
08724	G14492 0 - 60 GAUGE	EA	84	4.59
08725	G14493 0-160 GAUGE	EA	84	4.59
08726	G14494 0 - 160 GAUGE	EA	84	4.59
08727	G14495 0 TO 200 GAUGE	EA	84	4.59
08728	G14638 0 - 300 GAUGE	EA	84	4.59
08729	G14496 0 TO 300 GAUGE	EA	84	4.59
08730	G14498 0 TO 600 GAUGE	EA	84	4.59
08731	G14500 0 1000 GAUGE	EA	84	4.31
08732	G19792 30X500 REFG GAUGE	EA	84	13.15
08733	G19786 30 X150 GACUGE	EA	84	13.15
08734	G24749 30X120 R250 GUAGE	EA	84	13.15
08735	G10344	EA	84	21.68
08736	G10350 GAUGE	EA	84	18.99
08975	HEAVY DUTY HEAT GUN	EA	83	61.62
09001	9LB DRUM F13 (DEPOSIT)	EA	19	343.70
09008	50LB DRUM F22 (NO DEPOSIT)	EA	19	82.50
09009	125LB DRUM F22 (DEPOSIT)	EA	19	201.25
09015	50LB DRUM F12 (NO DEPSOIT)	EA	19	59.00
09016	30LB DRUM F12 (NO DEPOSIT)	EA	19	35.70
09018	30LB F12 DYTEL (NO DEPOSIT)	EA	19	42.30
09019	30LB F22 DYTEL (NO DEPOSIT)	EA	19	63.30
09020	30LB DRUM F22 (NO DEPOSIT)	EA	19	50.10
09021	30LB DRUM F114 (NO DEPOSIT)	EA	19	90.29
09023	150LB DRUM F114 (DEPOSIT)	EA	19	379.95
09024	100LB DRUM F11 8 1/3 GAL	EA	19	107.00
09025	200LB DRUM F11 16 2/3 GAL	EA	19	202.00
09026	650LB DRUM F11 54 1/8 GAL	EA	19	611.00
09027	23LB DRUM F13 (DEPOSIT)	EA	19	570.25
09029	30LB DRUM F11 PEESSURIZED	EA	19	50.70
09030	15LB DRUM F12 (NO DEPOSIT)	EA	19	24.30
09031	15LB DRUM F22 (NO DEPOSIT)	EA	19	32.55
09032	15LB DRUM F500 (NO DEPOSIT)	EA	19	46.94
09033	15LB DRUM F502 (NO DEPOSIT)	EA	19	51.90
09036	125LB DRUM F500 (DEPOSIT)	EA	19	286.83
09044	50LB DRUM F500 (NO DEPOSIT)	EA	19	131.12
09046	50LB DRUM F502 (NO DEPOSIT)	EA	19	137.00
09048	30LB DRUM F500 (NO DEPOSIT)	EA	19	80.01
09049	30LB DRUM F502 (NO DEPOSIT)	EA	19	82.80
09051	100LB DRUM F113 (NO DEPOSIT)	EA	19	217.54
09052	200LB DRUM F113 (NO DEPOSIT)	EA	19	405.28
09054	10LB DRUM F13 B1 (DEPOSIT)	EA	19	248.09
09055	28LB DRUM F13 B1 (DEPOSIT)	EA	19	355.04
09057	9LB DRUM F503 (DEPOSIT)	EA	19	522.45
09058	20LB DRUM F503 (DEPOSIT)	EA	19	876.12
09061	15LB DRUM F14 (DEPOSIT)	EA	19	688.16
09081	1 GAL ZEROL 150 REFRIG OIL	EA	66	10.86
09088	30LB DRUM 60% F12/40% F114	EA	19	93.93
09229	145LB DRUM F12 (DEPOSIT)	EA	19	160.95
09300	R015-C3 REFRIG OIL 1GAL 43031	EA	66	9.24
09301	R030-C4 REFRIG OIL 1GAL 43041	EA	66	9.24
09302	R050-C5 REFRIG OIL 1GAL 43051	EA	66	9.24
09303	R030-C4 REFRIG OIL 55GAL 43048	EA	66	495.88
09320	1/4M SAE X 1/4FE SAE KWIK COUP	EA	19	12.76
09321	1/4M SAE X 1/4FE SAE EL KWIK C	EA	19	12.17
09350	1/4 SAE X 1/8FIPT 90F SWVL ADP	EA	18	7.39
09351	1/4SAE X 1/8FIPT SWIVEL ADAPTR	EA	18	5.40
09359	PRESSURE PUMP SWITCH 15-70LB	EA	43	12.60
09362	PRESSURE PUMP SWITCH 6-75LB	EA	43	19.66
09367	14OZ CAN R12 DYTEL	EA	19	1.74
09368	14OZ CAN R12 SCREW TOP	EA	19	1.66
09372	14OZ CAN R12 FLAT TOP	EA	19	1.63
09382	TAP-A-CAN VALVE	EA	18	8.43
09384	1/4MSAE X 1/4FESAE 90F SWVL AD	EA	18	5.40
09385	1/4SAE HI SIDE SERVIC VALVE	EA	18	9.50
09499	235 206	EA	34	47.70
09500	7" SIDE CUTTING PLIER	EA	80	10.69
09501	8" SIDE CUTTING PLIER	EA	80	12.67
09504	8" HI LEVERAGE SIDE CUT PLIERS	EA	80	12.44
09505	5" OBLIQUE CUTTING PLIER	EA	80	8.90
09506	6" OBLIQUE CUTTING PLIER	EA	80	8.28
09508	8" OBLIQUE CUTTING PLIERS	EA	80	8.63
09511	6" LONG NOSE SIDE CUT PLIERS	EA	80	9.02
09512	7" LONG NOSE SIDE CUT PLIER	EA	80	9.44
09513	8" LONG NOSE SIDE CUT PLIERS	EA	80	11.67
09522	8" LONG PLIERS	EA	80	7.91
09523	10" LONG PLIERS	EA	80	9.04
09525	8" CHAIN NOSE PLIERS	EA	80	14.99
09526	6 3/4" LONG NOSE PLIERS	EA	80	11.60
09527	7 3/4" LONG NOSE PLIERS	EA	80	12.78
09528	DIAGONAL CUTTER 6 1/4"	EA	80	11.50
09529	DIAGONAL CUTTER 7 /14	EA	80	13.16
09549	7" SCRATCH AWL	EA	74	3.87
09550	16 OZ ELEC. HAMMER	EA	74	22.12
09554	32-40" LEATHER BELT 1 1/2" WID	EA	77	11.76

PART	DESCRIPTION	UOM	PAGE	PRICE
09560	ELECTRICIAN TOOL POUCH 7X10"	EA	77	12.54
09561	TOOL POUCH 8 1/2 X 11"	EA	77	12.91
09562	TOOL POUCH 7 X 10"	EA	77	24.70
09570	TOOL POUCH 8 X 9 1/2"	EA	77	12.55
09571	TOOL POUCH 8-POCKET	EA	77	20.66
09572	TOOL BAG 16" LONG X 14" DEEP	EA	77	35.19
09573	TOOL BAG 20" LONG X 16" DEEP	EA	77	38.25
09589	POCKET LEVEL	EA	74	2.17
09591	10 1/4" JAB SAW	EA	83	9.54
09592	ALL PURPOSE HACK SAW	EA	78	7.15
09600	9" HAND SHT METAL CRIMPER	EA	81	14.94
09601	8" 31F V HAND NOTCHER	EA	81	22.82
09602	8" SHT METAL FOLDING TOOL	EA	81	4.22
09603	DUCT HOLDER WITH 4FT CHAIN	EA	81	13.59
09604	16" STRAIGHT DUCT STRETCHER	EA	81	11.05
09605	16" OFFSET	EA	81	11.64
09606	8" SNAP LOCK PUNCH	EA	81	17.22
09607	8" COMPOUND LEVERAGE CRIMPER	EA	81	9.64
09608	8" HAND CRIMPER	EA	81	5.72
09610	SHT MTL HOLE CUTTER 2 TO 12"	EA	80	34.08
09611	REPL CUTTING BIT FOR 9610	EA	80	5.51
09612	12" SHT METAL FOLDING TOOL	EA	81	5.51
09614	OFFSET HAND SEAMER	EA	81	26.96
0A026	BELT	EA	63	2.35
0A033	BELT	EA	63	2.62
0A035	BELT	EA	63	2.71
0A036	BELT	EA	63	2.71
0A037	BELT	EA	63	2.71
0A038	BELT	EA	63	2.89
0A042	BELT	EA	63	3.07
0A043	BELT	EA	63	3.16
0A046	BELT	EA	63	3.25
0A048	BELT	EA	63	3.34
0A051	BELT	EA	63	3.43
0A055	BELT	EA	63	3.61
0A056	BELT	EA	63	3.70
0A060	BELT	EA	63	3.79
0A062	BELT	EA	63	3.88
0A064	BELT	EA	63	4.02
0A066	BELT	EA	63	4.06
0A068	BELT	EA	63	4.15
0A070	BELT	EA	63	4.33
0A075	BELT	EA	63	4.51
0A078	BELT	EA	63	4.69
0A080	BELT	EA	63	4.87
0A085	BELT	EA	63	5.23
0A090	BELT	EA	63	5.59
0A096	BELT	EA	63	5.95
0A112	BELT	EA	63	7.22
0A120	BELT	EA	63	7.76
0A128	BELT	EA	63	8.30
0B038	BELT	EA	63	3.97
0B042	BELT	EA	63	4.33
0B046	BELT	EA	63	4.69
0B048	BELT	EA	63	4.87
0B051	BELT	EA	63	5.05
0B054	BELT	EA	63	5.19
0B055	BELT	EA	63	5.23
0B056	BELT	EA	63	5.27
0B059	BELT	EA	63	5.39
0B060	BELT	EA	63	5.41
0B061	BELT	EA	63	5.50
0B062	BELT	EA	63	5.59
0B064	BELT	EA	63	5.66
0B065	BELT	EA	63	5.70
0B066	BELT	EA	63	5.84
0B067	BELT	EA	63	5.90
0B068	BELT	EA	63	5.95
0B070	BELT	EA	63	6.31
0B071	BELT	EA	63	6.35
0B075	BELT	EA	63	6.49
0B077	BELT	EA	63	6.75
0B078	BELT	EA	63	6.77
0B080	BELT	EA	63	6.98
0B081	BELT	EA	63	7.04
0B083	BELT	EA	63	7.27
0B085	BELT	EA	63	7.40
0B090	BELT	EA	63	7.76
0B093	BELT	EA	63	7.97
0B095	BELT	EA	63	8.14
0B096	BELT	EA	63	8.21
0B097	BELT	EA	63	8.48
0B099	BELT	EA	63	8.64
0B100	BELT	EA	63	8.64
0B103	BELT	EA	63	8.78
0B105	BELT	EA	63	9.02
0B108	BELT	EA	63	9.33
0B112	BELT	EA	63	9.74
0B116	BELT	EA	63	10.01
0B120	BELT	EA	63	10.28
0B124	BELT	EA	63	10.64
0B128	BELT	EA	63	11.00
0B133	BELT	EA	63	11.28
0B136	BELT	EA	63	11.55
0B144	BELT	EA	63	12.45
0T400	SUREFIRE T400 TORCH LIGHTER	EA	68	42.74
0T500	T500 SUREFIRE TORCH	EA	68	47.78
11328	1/8 OD SOLDER TEE	EA	39	1.12
11347	7/80D SUCT LINE P TRAP	EA	40	6.57
11348	1 1/80D SUCT LINE P TRAP	EA	40	9.12
11349	1 3/80D SUCT LINE P TRAP	EA	40	13.60
11350	1/40D X 1/40D X 3/80D TEE	EA	39	2.19
11351	3/80D X 3/80D X 5/80D TEE	EA	39	1.33
11352	5/80D X 5/80D X 1 1/80D TEE	EA	39	2.14
11373	PORTABLE TACHOMETER	EA	92	42.90
11374	REPL CONE TIP FOR 11373	EA	92	1.25
11375	REPL CUP TIP FOR 11373	EA	92	1.25
11380	3/160D SOLDER ELBOW	EA	38	.80
11381	5/160D SOLDER ELBOW	EA	39	.49
11396	7/80D 2 1/2" CENTER RET BEND	EA	39	2.51

PART	DESCRIPTION	UOM	PAGE	PRICE
11397	3/8OD 1 1/2" CENTER RET BEND	EA	39	.57
11398	5/8OD 2 1/2" CENTER BEND	EA	39	1.73
11399	3/4OD 2" CENTER RET BEND	EA	39	3.06
11400	1/8OD SOLDER COUPLING	EA	40	.08
11405	1/2OD X 1/2OD X 5/8OD TEE	EA	39	1.33
11407	7/8OD X 7/8OD X 1 1/8OD TEE	EA	39	2.14
11411	3/8OD 45F SOLDER ELBOW	EA	39	.91
11412	1/2OD 45F SOLDER ELBOW	EA	39	.70
11413	5/8OD 45F SOLDER ELBOW	EA	39	.27
11414	3/4OD 45F SOLDER ELBOW	EA	39	1.42
11415	7/8OD 45 SOLDER ELBOW	EA	39	.46
11416	1 1/8OD 45F SOLDER ELBOW	EA	39	1.24
11417	1 3/8OD 45F SOLDER ELBOW	EA	39	1.69
11418	1 5/8OD 45F SOLDER ELBOW	EA	39	2.04
11419	2 1/8 OD 45F SOLDER ELBOW	EA	39	3.40
11420	5/8OD X 1/2OD X 1/2OD TEE	EA	39	1.72
11421	5/8OD X 1/2OD X 5/8OD TEE	EA	39	1.72
11422	7/8OD X 5/8OD X 5/8OD TEE	EA	39	.67
11423	7/8OD X 5/8OD X 7/8OD TEE	EA	39	.67
11424	1 1/8OD X 5/8OD X 5/8OD TEE	EA	39	2.31
11447	1/4OD SOLDER COUPLING	EA	40	.08
11448	3/8OD X 1/4ID SOLDER BUSHING	EA	39	.28
11449	1/2OD X 1/4ID SOLDER BUSHING	EA	39	.36
11450	3/8ODS STREET ELBOW 90 DEGREES	EA	40	.84
11451	1/2ODS STREET ELBOW 90 DEGREES	EA	40	.65
11452	5/8OD STREET ELBOW 90 DEGREE	EA	40	.21
11453	3/4ODS STREET ELBOW	EA	40	1.33
11454	7/8OD STREET ELBOW 90 DEGREE	EA	40	1.52
11455	1 1/8OD STREET ELBOW 90 DEGREE	EA	40	2.20
11456	1 3/8OD STREET ELBOW 90 DEGREE	EA	40	3.25
11457	DISC BY MFG	EA	40	4.18
11458	2 1/8OD STREET ELBOW 90 DEGREE	EA	40	7.30
11462	3/16OD SP;DER COUPLING	EA	40	.08
11471	1/2OD 1 1/2" CENTER RET BEND	EA	39	.77
11477	5/8OD 2 1/2" CENTER RET BEND	EA	39	1.33
11482	3/4OD 2 1/4" CENTER RET BEND	EA	39	2.31
11487	5/8OD SOLDER UNION NOT FOR REF	EA	40	1.12
11488	7/8OD SOLDR UNION NOT FOR REFR	EA	40	1.56
11489	1 1/8OD SOLDR UNON NOT FOR REF	EA	40	2.45
11502	3/8OD X 3/8OD X 1/4OD TEE	EA	39	1.66
11503	1/2OD X 1/2OD X 3/8OD TEE	EA	39	1.53
11504	1/4OD X 1/8FIPT ADAPTER	EA	40	1.05
11507	3/8OD X 1/4OD RED ELBOW	EA	39	1.90
11508	3/8OD X 1/4OD RED COUPLING	EA	40	.74
11509	1/2OD X 1/4OD RED COUPLING	EA	40	.33
11511	1/4OD SOLDER TEE	EA	39	1.13
11512	1/4OD X 1/8MIPT ADAPTER	EA	40	1.61
11513	1/4OD X 1/4MIPT ADAPTER	EA	40	1.36
11514	5/16OD SOLDER COUPLING	EA	40	.35
11521	2 5/8OD X 2 1/8ID BUSHING	EA	39	5.81
11529	2 5/8OD 45 DEGREE ELBOW	EA	39	7.22
11531	2 5/8OD STREET ELBOW 90 DEGREE	EA	40	13.91
11533	2 5/8OD SOLDER COUPLING	EA	40	3.25
11538	2 5/8OD X 2 1/8OD RED COUPLING	EA	40	6.08
11547	2 5/8OD SOLDER TEE	EA	39	13.07
11549	1 1/8OD X 3/4ID BUSHING	EA	39	.81
11550	1/4OD ELBOW LONG RADIUS	EA	39	.80
11551	3/8OD ELBOW LONG RADIUS	EA	39	.80
11552	1/2OD ELBOW LONG RADIUS	EA	39	.93
11553	5/8OD ELBOW LONG RADIUS	EA	39	.87
11554	3/4OD ELBOW LONG RADIUS	EA	39	.93
11555	7/8OD ELBOW LONG RADIUS	EA	39	1.19
11556	1 1/8OD ELBOW LONG RADIUS	EA	39	1.70
11557	1 3/8OD ELBOW LONG RADIUS	EA	39	2.71
11558	1 5/8OD ELBOW LONG RADIUS	EA	39	3.47
11559	2 1/8OD ELBOW LONG RADIUS	EA	39	5.93
11562	1/4OD X 3/16OD RE COUPLING	EA	40	.74
11563	5/16OD X 1/4OD RE COUPLING	EA	40	.70
11564	3/8OD X 5/16OD RE COUPLING	EA	40	.74
11565	5/16OD SOLDER TEE	EA	39	1.13
11566	5/16OD X 5/16OD X 1/4OD TEE	EA	39	1.57
11567	7/8OD STREET ELBOW 90 DEGREE	EA	40	.39
11568	1/4OD FTG X 1/8MIPT ADAPTER	EA	40	1.56
11569	3/8OD FTG X 1/4MIPT ADAPTER	EA	40	1.56
11570	1/2OD FTG X 3/8MIPT ADAPTER	EA	40	1.31
11571	1/2OD FTG X 1/2MIPT ADAPTER	EA	40	1.34
11572	5/8OD FTG X 3/8MIPT ADAPTER	EA	40	1.43
11573	5/8OD FTG X 1/2MIPT ADAPTER	EA	40	1.43
11574	7/8OD FTG X 3/4MIPT ADAPTER	EA	40	1.83
11575	1 1/8OD FTG X 1MIPT ADAPTER	EA	40	2.34
11576	1/2OD FTG X 3/8FIPT ADAPTER	EA	40	1.25
11577	5/8OD FTG X 1/2FIPT ADAPTER	EA	40	.90
11578	7/8OD FTG X 3/4FIPT ADAPTER	EA	40	1.09
11579	1 1/8OD FTG X 1FIPT ADAPTER	EA	40	2.15
11580	1/4OD SOLDER TUBE CAP	EA	40	.14
11581	3/8OD SOLDER TUBE CAP	EA	40	.14
11582	1/2OD SOLDER TUBE CAP	EA	40	.21
11583	5/8OD SOLDER TUBE CAP	EA	40	.10
11584	3/4OD SOLDER TUBE CAP	EA	40	.22
11585	7/8OD SOLDER TUBE CAP	EA	40	.17
11586	1 1/8OD SOLDER TUBE CAP	EA	40	.46
11587	1 3/8OD SOLDER TUBE CAP	EA	40	.68
11588	1 5/8OD SOLDER TUBE CAP	EA	40	.94
11589	2 1/8OD SOLDER TUBE CAP	EA	40	1.67
11590	5/8OD STREET ELBOW 90 DEGREE	EA	40	1.25
11591	1 1/8OD STREET ELBOW 90 DEGREE	EA	40	1.29
11592	1 3/8OD STREET ELBOW 90 DEGREE	EA	40	1.98
11593	1 5/8OD STREET ELBOW 90 DEGREE	EA	40	2.56
11594	2 1/8OD STREET ELBOW 90 DEGREE	EA	40	5.59
11595	2 5/8OD SOLDER ELBOW	EA	39	6.82
11597	1/4OD X 1/8ID BUSHING	EA	39	.28
11598	1 5/8OD X 1 3/8OD RED ELBOW	EA	39	5.55
11599	3/16OD SOLDER TEE	EA	39	1.13
11603	05262 CASE	EA	90	33.53
11606	04299 CASE	EA	90	23.77
11609	392 AC-DC VOLT WATT METER	EA	89	168.45
11610	CASE FOR 11609	EA	90	20.76
11611	12311 METER 372 2	EA	89	86.09
11614	387 MILLIVOLT METER	EA	89	86.09
11616	CASE FOR 260 VOM	EA	90	37.78

PART	DESCRIPTION	UOM	PAGE	PRICE
11618	12281 LOW OHMETER	EA	89	86.09
11622	LEADS ALLIGATOR CLIP	EA	90	7.75
11623	LEADS PROBE TIP	EA	90	8.75
11624	LEADS PROBE TIP	EA	90	8.75
11637	150 AMP-CLAMP ADAPTER	EA	90	54.05
11638	CASE FOR 11637	EA	90	17.26
11640	CASE FOR 11710	EA	90	23.77
11645	LEADS COMB PROBE WITH CLIP	EA	90	10.01
11649	LEADS ALLIGATOR CLIP	EA	90	7.01
11655	260-7 VOLT OHM MILLIMETER	EA	90	119.12
11656	260-7 ROLL TOP COVER VOM	EA	90	139.14
11657	260-7P GOOF PROOF VOM	EA	90	170.17
11658	260-7P GOOF PROOF ROLL TOP VOM	EA	90	190.19
11659	470 DIGITAL LCD VOM	EA	90	139.14
11684	A47L AMPROBE ENERGIZER	EA	86	16.37
11690	RSI 50HZ AMPROBE FOR XPORT	EA	88	55.39
11697	RBT 14 PROBE -3.5 TO 118F	EA	89	32.23
11698	4060 CHART -40 TO 60F	EA	89	4.22
11699	3118 CHART -3.5 TO 118F	EA	89	4.22
11710	12271 VOM 160	EA	89	100.10
11746	360 DIGITAL VOM	EA	90	375.38
11748	CASE FOR 11746	EA	90	42.04
11751	260XL VOM SHATTER PROOF CASE	EA	90	139.14
11763	ROLL TOP CASE FOR 260 VOM	EA	90	28.27
11766	LEADS FOR 260-7 VOMS	EA	90	10.01
11770	TEST KIT FOR VOM & TEMP	EA	86	227.97
11771	MULTIMETER USED IN 11770 KIT	EA	86	99.04
11774	3AG-312 FUSE	EA	86	.70
11791	M75/HA VOM METER	EA	90	25.65
11792	TEMP PROBE 36" FOR 11791	EA	90	16.20
11796	LEADS FOR 11791	EA	90	2.97
11797	1/4 AMP FUSE FOR 11791	EA	90	.49
11798	CARRYING CASE FOR 11791	EA	90	4.05
12070	RECORDER FOR TEMP	EA	89	361.86
12072	MEGOHMMETER BATTERY	EA	88	322.19
12073	MEGOHMMETER HAND CRANK	EA	88	395.57
12074	MEGOHMMETER HAND CRANK	EA	88	208.13
12080	ACD-7 LCD 1-199.9&0-999	EA	88	144.78
12081	ACD-8 LCD 0-199.9&0-300 CLAMP	EA	88	159.28
12082	ACD-9 LCD 0-199.9&0-1999	EA	88	181.03
12083	HIGH VOLTAGE LEADS FOR AM-1	EA	88	9.77
12087	AM-6 ANALOG VOM METER	EA	88	23.30
12088	CASE FOR AM-6	EA	88	6.80
12089	ALL WEATHER LEADS FOR AM-6	EA	88	6.45
12090	AM-2BBDP DROP PROOF VOM METER	EA	88	43.49
12091	AM-1A ANALOG VOM METER	EA	88	46.12
12093	AM-12 DIGITAL MULTI METER	EA	89	57.93
12094	TAM-4A DIGITAL MULTIMETER	EA	89	307.31
12095	DT-156 HANDY PACK DIG THERM	EA	89	155.57
12096	LAV21-12 VOLT/AMMETER AC	EA	89	376.74
12097	CHARTS FOR LAV21-12	EA	89	25.29
12098	TMOT-220 OP-TACH DIG TACHOMETE	EA	86	337.07
12310	RECEIVER 5"OD X 28" LONG	EA	22	78.79
12312	RECEIVER 6 5/8"OD X 36" LONG	EA	22	145.24
12313	RECEIVER 8 5/8"OD X 36" LONG	EA	22	240.45
12380	CON & RECEIVER 1/4HP	EA	22	53.59
12381	CON & RECEIVER 1/3HP	EA	22	56.91
12386	H630 HORIZONTAL COOLER COND	EA	22	157.59
12404	TOOL BAG 6" X 12" ZIPPER	EA	77	4.02
12500	ELF33 1/3HP WATER COOLED COND	EA	22	78.47
12501	ELF50 1/2HP WATER COOLED COND	EA	22	120.26
12502	ELF75 3/4HP WATER COOLED COND	EA	22	98.42
12503	ELF100 1HP WATER COOLED COND	EA	22	111.72
12504	ELF150 1 1/2HP WATR COOLD COND	EA	22	142.31
12505	ELF200 2HP WATER COOLED COND	EA	22	168.91
12506	ELF300 3HP WATER COOLED COND	EA	22	231.42
12600	OUTFIT FOR B TANK	EA	68	62.13
12601	OUTFIT FOR MC TANK	EA	68	62.13
12602	22X52 WELDING KIT FOR MC TANK	EA	69	330.34
12603	22X47 WELDING KIT FOR B TANK	EA	69	321.97
12604	30X66 OUFFIT FOR B TANK	EA	68	103.55
12605	30X67 OUTFIT FOR MC TANK	EA	68	103.55
12608	30X63 OUTFIT FOR B TANK	EA	68	82.80
12609	30X64 OUTFIT FOR MC TANK	EA	68	82.80
12610	CUTTING ATTACHMENT	EA	69	67.23
12611	NOZZLE #2 CUT TO 1/4" STEEL	EA	69	8.18
12612	NOZZLE #4 CUT TO 3/4" STEEL	EA	69	8.55
12613	NOZZLE #5 CUT TO 1 1/2" STEEL	EA	69	8.55
12614	#3 TIP POL SWIRL JET	EA	69	29.07
12615	#4 TIP POL SWIRL JET	EA	69	31.29
12616	#5 TIP POL SWIRL JET	EA	69	34.01
12617	#3 TIP PROPANE SWIRL JET	EA	69	25.02
12618	#4 TIP PROPANE SWIRL JET	EA	69	27.66
12619	O RING 3/8"ID 21/32"OD	EA	68	1.25
12623	REPAIR KIT FOR REGULATOR	EA	68	12.07
12631	134Z18 KNOB	EA	68	8.83
12633	O2X93 HANDLE WITH VALVE	EA	68	18.13
12635	11X16 POL LEAK DETECTOR	EA	69	26.46
12637	REACTOR PLATE FOR 12635	EA	69	3.69
12645	WELDING BRAZING KIT B	EA	69	195.88
12646	998137 WELDING BRAZING KIT B	EA	69	195.88
12647	#9 WELDING HEAD	EA	69	15.06
12649	REGULATOR B TANK	EA	69	39.79
12651	POL LEAK DETECTOR	EA	69	27.61
12653	REACTOR PLATE FOR 12651	EA	69	6.56
12654	CERAMIC SLEEVE	EA	69	1.73
12660	REGULATOR MC TANK	EA	69	38.26
12662	O4X36 B REGULATOR	EA	68	30.79
12663	O4X37 MC REGULATO	EA	68	30.79
12664	GAUGE REGULATOR PRESSURE	EA	68	7.29
12669	1OF69 GOGGLES	EA	69	5.40
12671	POL 6FT "A" HOSE	EA	70	6.37
12672	POL 12 1/2FT "A" HOSE	EA	69	9.73
12676	CYL CARRYING STAND	EA	69	43.34
12678	GAUGE FOR TANK PRESSURE	EA	68	7.29
12695	CHECK VALVE FOR ACET HOSE	EA	69	6.37
12696	CHECK VALVE FOR OXY HOSE	EA	69	6.37
12713	3/4OD GEAR TUBE BENDER	EA	75	99.18
12714	7/8OD GEAR TUBE BENDER	EA	75	102.61
12726	"R" OXYGEN TANK EXCHANGE	EA	68	7.88

PART	DESCRIPTION	UOM	PAGE	PRICE
12727	"R" OXYGEN TANK OUTRIGHT SALE	EA	68	122.85
12728	W200 WELDING TORCH	EA	69	51.21
12729	#6 WELDING TIP	EA	69	14.33
12730	SINGLE STAGE OXYGEN REGULATOR	EA	69	55.13
12731	05X83 ACET REGUL FOR MC TANK	EA	69	59.25
12732	TWIN 12 1/2FT HOSE	EA	69	10.94
12735	PORTABLE CARRYING CART	EA	69	75.66
12742	REPL NEEDLE VALVE	EA	68	13.35
12745	GAUGE FOR CYL 3000LB	EA	69	11.89
12746	GAUGE FOR DEL 100LB	EA	69	7.29
12749	ACET REGUL FOR B TANK	EA	69	59.25
12758	TWIN 25FT HOSE	EA	69	19.37
12769	#4 WELD HEAD	EA	69	14.33
12770	#15 WELD HEAD	EA	69	18.06
12771	#30 WELD HEAD	EA	69	15.06
12772	SINGLE STAGE "W" ACET REGULATR	EA	69	49.00
12796	WELD & CUTTING OUTFIT	EA	69	287.91
12798	POL FINE TORCH STEM	EA	68	7.22
12845	119X07 ADPTR FOR MC REG TO B	EA	68	8.47
12849	HANDLE TO CARRY B TANK	EA	68	15.32
12938	FLINT LIGHTER	EA	69	1.35
12939	REPL FLINTS FOR 12938	EA	69	.80
12962	CONDENSER 2HP	EA	22	244.39
12963	CONDENSER 3HP	EA	22	304.30
12964	CONDENSER 5HP	EA	22	416.16
12965	CONDENSER 7 1/2HP	EA	22	563.78
12966	K10X COUNTERFLOW CONDENSER	EA	22	686.04
13398	YOKE FOR 16315	EA	76	17.95
13399	CONE FOR 13455	EA	76	8.06
13452	REAMER FOR 3/16-1 1/2OD TUBE	EA	76	10.75
13455	FLARE & SWAGE TOOL	EA	76	74.24
13457	SWAGE ADAPTOR 3/16-1/4-3/8	EA	76	12.00
13458	SWAGE ADAPTOR 1/2-1/4-3/8	EA	76	12.00
13459	SWAGE ADAPTOR 5/8-1/4-3/8	EA	76	12.00
13460	SWAGE ADAPTRO 3/4-1/4-3/8	EA	76	12.00
13524	FLARE & CUTTER KIT	EA	75	35.93
13553	PINCH OFF 1/4-3/8-1/2	EA	75	16.78
13554	DOUBLE FLARE TOOL	EA	75	34.02
13564	FLARE TOOL 1/8-3/4"	EA	75	49.29
13565	FLARE BAR 1/8-7/16"	EA	75	30.77
13566	FLARE BER 1/2-3/4"	EA	75	24.02
13567	YOKE ASSEMBLY FOR 13564	EA	75	24.02
13570	TOOL KIT FLARE CUTTER BEND	EA	75	96.96
13574	3/16 ADAPTR DBL FLARE	EA	75	6.92
13575	1/4 ADAPTR DBL FLARE	EA	75	7.12
13576	5/16 ADAPTR DBL FLARE	EA	75	7.12
13597	FLARE CUTTER KIT 9 SIZES	EA	74	60.48
13709	TX VALVE 1/2 TON F12 EXT EQ	EA	34	29.07
13710	TX VALVE 1 TON F12 EXT EQ	EA	34	29.07
13711	TX VALVE 2 TON F12 EXT EQ	EA	34	29.07
13712	TX VALVE 3 TON F12 EXT EQ	EA	34	29.07
13715	TX VALVE 3 TON F22 EXT EQ	EA	34	29.07
13717	TX VALVE 5 TON F22 EXT EQ	EA	34	30.51
13718	TX VALVE 1/2 TON F502 INT EQ	EA	34	20.52
13719	TX VALVE 1 TON F502 INT EQ	EA	34	21.60
13720	TX VALVE 2 TON F502 INT EQ	EA	34	21.60
13721	223-162 EXPANSION VALVE	EA	34	21.60
13722	TX VALVE 1 TON F502 EXT EQ	EA	34	29.07
13723	TX VALVE 2 TON F502 EXT EQ	EA	34	30.51
13724	TX VALVE 3 TON F502 EXT EQ	EA	34	30.51
13725	TX VALVE 1/2 TON F12 INT EQ	EA	34	24.30
13726	TX VALVE 1 TON F12 INT EQ	EA	34	24.30
13747	TX VLV 2 TON F22 100LB PL EXT	EA	34	35.82
13749	TX VLV 5TON F22 100LB PL EXT E	EA	34	35.82
13753	TX VLV 1/2TON F12 INT EQ	EA	34	16.65
13754	TX VLV 1 TON F12 INT EQ	EA	34	16.65
13764	TX VLV 1 TON F502 EXT EQ	EA	34	30.51
13780	DIGTL THRM SGL CBL -31-122F	EA	91	59.28
13781	DIGTL THRM DUAL CBL -31-122F	EA	91	67.24
13790	TX VALVE 1/4 TON F12 INT EQ	EA	34	16.65
13795	DIGTL THRM DUAL/ZONE 32-230F	EA	90	73.26
13886	CRANKCASE PRESS REG 0-155LB	EA	34	41.31
13900	CRANK CASE PRESS REG 10-45LB	EA	34	55.35
13901	TRAP-IT FILTER 1/4SAE 1 TON	EA	34	7.35
13902	TRAP-IT FILTER 3/8SAE 1 TON	EA	34	6.08
13903	TRAP-IT FILTER 1/4SAE 2 TON	EA	34	8.20
13904	TRAP-IT FILTER 3/8SAE 2 TON	EA	34	6.68
13925	AUTO EXP VALVE 1/2 TON 1/4FPT	EA	34	20.52
13943	AUTO EXP VALVE BLEED TYPE 1/2T	EA	34	21.15
13952	SUCT PRESS EVAP VALVE 0-40LB	EA	34	47.70
13955	CRANK CASE PRESS REG 10-75LB	EA	34	41.31
13957	AUTO EXP VALVE 1/2 TON 3/8SAE	EA	34	20.52
13958	AUTO EXP VALVE 1/2 TON 1/2SAE	EA	34	20.52
13968	CRANK CASE PRESS REG 10-75LB	EA	34	41.31
13969	CRANKCS PRES REG 10-45LB 11/2T	EA	34	41.31
13970	CRANKCS PRES REG 10-45LB 3 TON	EA	34	55.35
14044	WATER REG VLV 70-170LB F12	EA	43	44.75
14045	WATER REG VLV 175-225LB F22	EA	43	44.19
14050	WATER FOUNT BUBBLER 3/8FIPT	EA	95	30.19
14051	CARTRIDGE FOR 14050	EA	95	14.96
14052	ESCUTCHEONS FOR 14050	EA	95	2.80
14160	STEEL STRAPS FOR 1/4OD TUBE	EA	53	.12
14161	STEEL STRAPS FOR 3/8OD TUBE	EA	53	.15
14162	STEEL STRAPS FOR 1/2OD TUBE	EA	53	.16
14163	STEEL STRAPS FOR 5/8OD TUBE	EA	53	.19
14164	STEEL STRAPS FOR 3/4OD TUBE	EA	53	.23
14165	STEEL STRAPS FOR 7/8OD TUBE	EA	53	.28
14201	50YD X 1" 100 GRIT AL OXD CLTH	EA	80	20.50
14202	50YD X 1" 150 GRT AL OXD CLOTH	EA	80	20.50
14203	50YD X 1" 240 GRT AL OXD CLOTH	EA	80	20.50
14245	THAWZONE 1OZ LIQ DEHYDRANT	EA	66	1.15
14246	THAWZONE 4OZ LIQ DEHYDRANT	EA	66	3.21
14247	THAWZONE PT LIQ DEHYDRANT	EA	66	9.28
14266	20004 TRACE 4 OZ CHARGE IT KIT	EA	66	2.37
14268	20016 TRACE PINT	EA	66	3.60
14270	22008 BUBBLE LEAK DETECTOR	EA	66	1.66
14312	ACETYLENE KIT TURBL TORCH	EA	67	92.34
14313	REGULATOR FOR MC TANK	EA	67	33.59
14351	HEAT SHIELD FOR 14323	EA	68	9.96
14352	HEAT SHIELD FOR 14324	EA	68	9.96
14357	HEAT SHIELD FOR 14370	EA	68	7.70
14358	HEAT SHIELD FOR 14371	EA	68	8.81
14364	12FT HOSE FOR ACETYLENE	EA	67	14.77
14366	X3B ACETYLENE KIT TURBO TORCH	EA	67	118.52
14367	X4B ACETYLENE KIT TURBO TORCH	EA	67	122.92
14370	A3 ACETYLENE TIPS TURBO TORCH	EA	67	26.13
14371	A5 ACETYLENE TIPS TURBO TORCH	EA	67	30.74
14372	A8 ACETYLENE TIPS TURBO TORCH	EA	67	33.83
14373	A11 ACETYLENE TIP TURBO TORCH	EA	67	35.34
14374	A14 ACETYLENE TIP TURBO TORCH	EA	67	41.49
14375	A32 ACETYLENE TIP TURBO TORCH	EA	67	61.57
14377	G 2 ACETY HANDLE TURBO TORCH	EA	67	29.28
14379	AR-B REG ACETY B TANK	EA	67	31.63
14386	TURBO TOTE KIT WELD & BRAZE	EA	68	232.77
14387	SA ADAPTR TO FIT STD HANDLE	EA	67	15.26
14391	ST 1 SMALL TIP FOR MAPP GAS	EA	67	14.66
14394	MT 1 MAPP TANK	EA	67	5.16
14409	STK9 MAPP GAS HAND TORCH	EA	67	34.88
14891	DISC BY MFG	EA	73	1.27
14923	SCREW DRIVER 1/4"SQ X 1 1/4" B	EA	74	2.42
14924	DISC BY MFG	EA	74	3.26
14925	SCRW DRVR 1/8RD X 2" BLADE	EA	74	1.75
14926	SCRW DRVR 1/8RD X 3" BLADE	EA	74	1.91
14927	SCRW DRVR 3/16SQ X 3" BLADE	EA	74	3.02
14928	SCRW DRVR 3/16SQ X 4" BLADE	EA	74	3.18
14929	SCRW DRVR 3/16SQ X 6" BLADE	EA	74	3.28
14931	SCRW DRVR 1/4"SQ X 4" BLADE	EA	74	3.72
14932	SCRW DRVR 1/4"SQ X 6" BLADE	EA	74	3.86
14933	SCRW DRVR 1/4"SQ X 8" BLADE	EA	74	4.29
14934	DISC BY MFG	EA	74	5.14
14936	SCRW DRVR 3/8"SQ X 8" BLADE	EA	74	6.07
14958	DISC BY MFG	EA	74	2.78
14959	DISC BY MFG	EA	74	3.53
14960	DISC BY MFG	EA	74	4.75
14961	PHILIPS SCREW DRIVER STUBBY	EA	74	2.78
14962	DISC BY MFG	EA	74	3.07
15059	4781 SCREW STAR	EA	73	6.87
15060	4782 SCREW START	EA	73	7.34
15125	1/8IPT X 3/4" BRASS NIPPLE	EA	40	.11
15126	1/4IPT X 7/8" BRASS NIPPLE	EA	40	.18
15127	3/8IPT X 1" BRASS NIPPLE	EA	40	.28
15128	1/2IPT X 1 1/8" BRASS NIPPLE	EA	40	.44
15155	1/8IPT X 1 1/2" BRASS NIPPLE	EA	40	.24
15156	1/4IPT X 1 1/2" BRASS NIPPLE	EA	40	.35
15157	3/8IPT X 1 1/2" BRASS NIPPLE	EA	40	.47
15158	1/2IPT X 1 1/2" BRASS NIPPLE	EA	40	.65
15159	1/8IPT X 2" BRASS NIPPLE	EA	40	.35
15160	1/4IPT X 2" BRASS NIPPLE	EA	40	.41
15161	3/8IPT X 2" BRASS NIPPLE	EA	40	.61
15162	1/2IPT X 2" BRASS NIPPLE	EA	40	.77
15164	1/4IPT X 3" BRASS NIPPLE	EA	40	.72
15165	3/8IPT X 3" BRASS NIPPLE	EA	40	.81
15166	1/2IPT X 3" BRASS NIPPLE	EA	40	1.02
15277	DEBUR TOOL FOR COPPER TUBE	EA	79	11.57
15279	KIT TO FREEZE & SHUT OFF WATER	EA	78	134.79
15351	GEAR PUULER 2 ARM	EA	78	22.02
15352	GEAR PULLER 3 ARM	EA	78	32.64
15353	FAN & BLWR WHL REMOVER	EA	78	39.34
15354	FAN & BLWR WHL REMOVER	EA	78	58.26
15355	PG GITCH GAUGE FOR FAN BLDS	EA	78	16.58
15358	B36C SHEET METAL BRAKE	EA	80	249.00
15359	STATIONARY STAND	EA	80	79.00
15361	HR1 WATER CONDITR 1/4" COMP	EA	65	21.61
15362	2PP WATER CONDITR 1/4" COMP	EA	65	41.21
15363	8PP WATER CONDITR 3/8" COMP	EA	65	66.26
15374	9 PC WRENCH SET	SET	81	32.60
15376	7 PC WRENCH SET	SET	81	36.34
15377	20 PC 3/8 SOCKET SET	SET	81	45.15
15378	13 PC 1/4 SOCKET SET	SET	81	26.71
15390	22 PIECE CARRY KT	EA	82	26.37
15658	125LB DRUM F502 (DEPOSIT)	EA	19	331.25
15666	15OZ CAN F22 SCREW TOP	EA	19	5.04
15700	2 IN 1 REV SCR DRV #1 & 3/16"R	EA	73	3.98
15701	2I IN 1 REV SCR DRV #2 & 1/4"R	EA	73	4.53
15708	NUT DRIVER 1/4 HEX	EA	74	2.66
15709	NUT DRIVER 5/16 HEX	EA	74	2.66
15710	NUT DRIVER 11/32 HEX	EA	74	2.66
15711	NUT DRIVER 3/8 HEX	EA	74	2.66
15712	NUT DRIVER 7/16 HEX	EA	74	3.69
15713	NUT DRIVER 1/2 HEX	EA	74	3.69
15747	MAGNETIC SCR DRIVER 4 BITS	EA	74	7.84
15748	REPL BITS FOR 15747	EA	74	3.43
15749	4IN1 SCR DRV 1&2 PH 3/16&1/4 R	EA	74	7.04
15750	REPL BLD #1 & 3/16" FOR 15749	EA	74	3.23
15751	REPL BLD #2 & 1/4" FOR 15749	EA	74	3.23
15752	ADJ WIRE STRIPPER PLIER TYPE	EA	80	4.01
15755	NUT DRV KIT 7 SIZES	EA	74	24.49
15757	SOLDERLESS CONNECTOR KIT	EA	79	70.79
15758	WIRE STRIPPER & CUTTER 18-8 GA	EA	80	6.84
15763	SOLDERLESS TERMINAL KIT 164 PC	EA	79	9.89
15781	NUT DRIVER KIT EX LONG 7 SIZES	EA	74	27.35
15820	10"HEAVY DUTY HACKSAW BLADE	EA	83	.95
15821	10" 32TEETH HACKSAW BLADE	EA	83	.95
15822	12" 24TEETH HACKSAW BLADE	EA	83	1.04
15823	12" 32 TEETH HACKSAW BLADE	EA	83	1.04
15824	DISC BY MFG NO SUB	EA	83	1.76
15825	DISC BY MFG NO SUB	EA	83	1.76
15826	DISC BY MFG NO SUB	EA	83	1.76
15827	12" 18 TEETH BI METAL HCKSW BL	EA	83	1.28
15828	12" BIMETAL 24TEETH HCKSW BLD	EA	83	1.28
15829	12" BIMETAL HCKSW BLD 32TEETH	EA	83	1.28
16090	CHAIN GRIP PULLER 3 HOOKS	EA	78	67.61
16176	8R SHEET MET TOOL	EA	81	11.02
16178	11R C CLAMP 11"	EA	80	12.46
16180	20R CHAIN WRENCH	EA	80	18.08
16182	6R C CLAMP 6"	EA	80	7.38
16254	A8 TEMP ANALYZER -50 TO 250F	EA	91	102.18
16255	P1 PROBE 15 FT	EA	91	20.28
16256	P2 PROBE 30 FT	EA	91	25.96
16257	P3 AIR PROBE 15FT	EA	91	20.28

EFFECTIVE 3/15/87

PART	DESCRIPTION	UOM	PAGE	PRICE
16287	A20 HERMETIC UNIT ANALYZER	EA	91	260.70
16288	A4 CAPACITOR TESTER	EA	14	72.10
16289	A14 VAC ANALYZER	EA	91	104.59
16293	A3 HERMETIC UNIT ANALYZER	EA	91	172.19
16294	A12 HERMETIC UNIT ANALYZER	EA	91	240.14
16297	A15 H1 TEMP PYROMETER 0-1200F	EA	91	55.57
16298	HT4 PROBE FOR 16297 4FT	EA	91	11.26
16299	HT3 PROBE FOR A15	EA	91	6.76
16311	FLARE TOOL 5/8 TO 1 1/8' TUBE	EA	76	58.57
16313	140-F 22 PLUG FOR 1 3/8OD TUBE	EA	76	27.78
16314	140-F 26 FOR 1 5/8OD TUBE	EA	76	28.37
16315	1/2 5/8 7/8 SWAGE TOOL KIT	EA	76	46.88
16320	BAR ASSEMBLY FOR 16315	EA	76	28.71
16321	FLARE TOOL 3/16 TO 5/8" TUBE	EA	76	16.23
16322	YOKE FOR 16321	EA	76	13.34
16323	BAR FOR 16321	EA	76	17.45
16342	TUBE CUTTER 1/8 TO 1 1/8"	EA	75	17.23
16343	TUBE CUTTER 1/4 TO 1 5/8"	EA	75	21.84
16344	WHEEL FOR 16342-3	EA	74	3.60
16345	WHEEL FOR ST STEEL HARD COP	EA	74	4.51
16346	SCREW FOR 16342-3	EA	74	1.52
16347	TUBE CUTTER 3/8-2 5/8"	EA	75	37.75
16348	WHEEL FOR 16347	EA	75	6.93
16350	TUBE CUTTER 2 1/8- 4 1/8	EA	75	71.34
16351	WHEEL FOR 16350	EA	75	10.49
16352	SCREW FOR 16350	EA	75	4.07
16353	TUBE CONSTAICTOR & CUTTER	EA	75	21.56
16354	WHEEL FOR 16353	EA	75	6.10
16355	TUBE CUTTER 1/8 TO 5/8"	EA	74	8.90
16356	TEST MANIFOLD ONLY	EA	19	27.44
16359	MANIFOLD WITHOUT HOSES W/GAUGE	EA	19	77.86
16361	423CR O 400 GAUGE	EA	19	9.15
16362	425CB GAUGE	EA	19	15.25
16367	CASE ONLY	EA	19	19.70
16368	YOKE FOR 23084	EA	76	28.81
16369	YOKE FOR 23093	EA	75	15.38
16370	TUBE CUTTER 3/8 TO 1 1/8"	EA	74	16.32
16371	TUBE BENDER 1/8-3/16-1/4"OD TU	EA	74	21.03
16372	FLARE TOOL 3/16 TO 5/8"	EA	74	39.44
16380	535C LIQUID CHGR.	EA	19	20.40
16383	REFRG WRH 3/16-1/4-1/2-9/16 HX	EA	82	9.08
16384	2VLV ADAPTR FOR MFLD	EA	19	15.93
16385	MFLD 4 VLV & GAUGES	EA	19	59.53
16389	TUBE BENDER 1/4-5/16-3/8OD TUB	EA	74	25.32
16390	REFRIG WRENCH 3/16-3/8"SQ	EA	82	4.59
16391	CASE FOR 16385	EA	19	19.51
16970	GASKET1/4 1/4SAE COPPER GASKET	EA	41	.16
16971	GASKET3/8 3/8SAE COPPER GASKET	EA	41	.20
16972	GASKET1/2 1/2SAE COPPER GASKET	EA	41	.25
16973	GASKET5/8 5/8SAE COPPER GASKET	EA	41	.48
16974	GASKET3/4 3/4SAE COPPER GASKET	EA	41	.49
17100	BODY ONLY EDGE MOUNT OFFSET	EA	47	31.04
17101	BODY ONLY EDGE MOUNT STRAIGHT	EA	47	30.64
17102	BODY ONLY OFFSET W/LOCK	EA	47	36.86
17103	BODY ONLY STRAIGHT W/LOCK	EA	47	36.04
17104	STRKS FOR 17100-17103	EA	47	11.06
17105	533D BODY ONLY	EA	47	31.65
17106	538C BODY ONLY	EA	47	34.04
17107	538 BODY ONLY	EA	47	28.79
17108	533 & 538 STRIKES ONLY	EA	47	10.08
17109	531C BODY ONLY	EA	47	52.39
17110	531 BODY ONLY	EA	47	38.81
17111	531 STRIKE ONLY	EA	47	17.34
17112	535H BODY ONLY	EA	49	19.27
17113	535H STRIKE ONLY	EA	49	12.62
17114	930C BODY ONLY	EA	47	24.92
17116	930C STRIKE 3/4 BY 1 1/4 ONLY	EA	47	20.96
17117	931 BODY ONLY	EA	47	48.71
17118	931 STRIKE 7/8 TO 1 1/8 ONLY	EA	47	17.24
17120	K56C BODY ONLY	EA	48	72.50
17122	K56C STRIKE 3/4 TO 1 1/2 ONLY	EA	48	21.70
17124	481 PUSHROD4ABOVE	EA	48	6.06
17125	K55 CHR BODY ONLY WITH I.R.H.	EA	48	157.39
17126	K55 STRIKE ONLY	EA	48	68.48
17128	K55 483 PUSH ROD	EA	48	14.36
17148	212 EDGE MOUNT HINGE 1 1/8	EA	47	12.06
17150	217 EDGE MOUNT HINGE 1 1/8 CHR	EA	47	14.52
17152	218 EDGE MOUNT HINGE 1 1/8 CHR	EA	47	23.17
17173	1409 HINGE 7/8 KASONIZED	EA	48	34.22
17174	1409 HINGE 1 1/8 KASONIZED	EA	48	34.22
17175	1409 HINGE 1 1/4 KASONIZED	EA	48	34.22
17187	K1097 DOOR CLOSER KASONIZED	EA	48	140.35
17189	573 PULL REPL 577 5-7/8 X 5	EA	49	6.22
17221	5034 PUSH ROD OFF	EA	48	4.64
17228	302 HINGE 1-1/8 OFFSET	EA	48	5.52
17229	303 HINGE 1-1/8 OFFSET	EA	48	15.04
17230	305 HINGE 1-1/8 OFFSET	EA	48	17.28
17231	307 HINGE 1-1/8 OFFSET	EA	48	12.48
17232	303C HINGE 1-1/8 OFFSET	EA	48	29.12
17240	324 BODY ONLY	EA	48	25.84
17241	324 STRIKE ONLY	EA	48	10.27
17242	507 BODY ONLY	EA	48	15.60
17243	507 STRIKE ONLY 5/8 - 1 1/4	EA	48	7.60
17244	507-002 STRIKE 5/16-9/16 OFF.	EA	48	7.60
17245	507-003 STRIKE ONLY FLUSH-5/16	EA	48	7.60
17246	508 BODY ONLY	EA	48	17.28
17247	508 STRIKE ONLY 3/4 TO 1-1/4	EA	48	7.28
17248	441 BODY ONLY	EA	48	36.88
17249	441STRIK1/16 11/2	EA	48	10.27
17400	Z 326 ZINC LOCK W/PUSH ROD	EA	48	36.46
17401	Z 326 ZINC STRIKE	EA	48	14.95
17406	Z329M ZINC LOCK W/PUSH ROD	EA	48	27.17
17407	Z 329 ZINC STRIKE	EA	48	9.46
17532	Z 332 ZINC LOCK	EA	48	13.93
17533	Z 332 ZINC STRIKE	EA	48	9.46
17547	Z12 1 1/4 HINGE	EA	48	13.69
17548	Z17 1 1/4 HINGE	EA	48	19.56
17550	7/8" HINGE 9" BLADE	EA	48	11.64
17551	1" HINGE 9" BLADE	EA	48	11.64
17552	1 1/8" HINGE 9" BLADE	EA	48	11.64
17553	7/8" HINGE 12" BLADE	EA	48	13.69
17554	1" HINGE 12" BLADE	EA	48	13.69
17555	1 1/8" HINGE 12" BLADE	EA	48	13.69
17556	7/8" HINGE 17" BLADE	EA	48	18.53
17557	" HINGE 17" BLADE	EA	48	19.56
17558	1 1/8" HINGE 17" BLADE	EA	48	19.56
17710	K4C BODY ONLY CHROME	EA	48	44.29
17711	K40 STRIKE 5/8 TO 1 1/4 CHROME	EA	48	47.09
17712	K20 BODY ONLY CHROME	EA	48	38.54
17732	930 C STRIKE 5/8 TO 1 1/8 CHR	EA	48	20.96
17900	T631C1103 AIR SW	EA	28	46.50
17909	T6031K1001 THERM	EA	28	38.24
18100	CNRL DBL SIDE TAPE 3/4" X 3FT	EA	52	2.56
18101	FIN COMB KIT	EA	76	4.48
18102	T-1 FIN TOOL HANDLE	EA	76	.93
18109	EXPANDO TUBE CLNR 5/16 TO 3/8I	EA	77	12.24
18110	EXPANDO TUBE CLNR 3/8 TO 1/2ID	EA	77	12.24
18111	EXPANDO TUBE CLNR 1/2 TO 5/8ID	EA	77	12.24
18112	EXPANDO TUBE CLNR 5/8 TO 1"ID	EA	77	12.24
18113	JOINT SEALER 1LB PIPE COMPOUND	EA	52	2.72
18115	RODS 30" LONG	EA	77	2.40
18130	TATTLE-TALE 24V	EA	15	3.60
18131	TATTLE-TALE 120V	EA	15	3.60
18132	TATTLE-TALE 240V	EA	15	3.60
18134	EPOX-A-LEAK KIT	EA	52	2.96
18142	BS-64 (02664) SPRAY BOTTLE	EA	64	6.32
18143	FPT 10 FIN JACK	EA	76	4.91
18144	FPT 13 FIN JACK	EA	76	4.91
18145	FPT 15 FIN JACK	EA	76	4.91
18155	UNDERWATER EPOXY PUTTY	EA	52	5.49
18190	MEASURING TAPE	EA	78	7.14
18191	MEASURING TAPE	EA	78	8.28
18192	MEASURING TAPE	EA	78	10.34
18193	MEASURING TAPE	EA	78	12.61
18412	SHORT ARM HEX KEY SET 7PC	EA	82	3.43
18413	LONG ARM HEX KEY SET 7PC	SET	82	4.55
18414	12" LONG HEX KEY SET	SET	82	10.19
18452	130 REPAIRMEN'S REAMER	EA	74	7.54
18470	DISC BY MFG	EA	83	6.63
18478	DRILL SET IN PLT CASE 13 DRILL	SET	83	10.79
18479	HEX TOOL 9 KEYS	SET	82	3.04
18481	HEX TOOL 5 KEYS	SET	82	5.66
18500	REL VLV 1/4MIPT X 3/8SAE	EA	42	21.98
18509	REL VLV 3/8MIPT X 3/8SAE	EA	42	21.98
18581	REL VLV 1/4MIPT X 3/8SAE	EA	42	21.98
18582	REL VLV 3/8MIPT X 3/8SAE	EA	42	21.98
18583	REL VLV 3/8MIPT X 1/2SAE	EA	42	23.51
18584	REL VLV 1/2MIPT X 5/8SAE	EA	42	26.66
18587	REL VLV 1/4MIPT X 3/8SAE	EA	42	21.98
18588	REL VLV 3/8MIPT X 3/8SAE	EA	42	21.98
18590	REL VLV 1/8MIPT	EA	42	10.58
18591	REL VLV 1/4MIPT	EA	42	10.58
18592	REL VLV 1/2MIPT X 5/8SAE	EA	42	26.66
18593	REL VLV 1/4MIPT 3/8SAE	EA	42	21.98
18594	REL VLV 3/8MIPT X 3/8SAE	EA	42	21.98
18595	1/8MIPT	EA	42	10.58
18596	REL VLV 1/4MIPT	EA	42	10.58
18597	REL VLV 3/8MIPT X 3/8SAE	EA	42	21.98
18598	REL VLV 1/4MIPT	EA	42	10.58
18599	5223 235PSI	EA	42	10.58
19131	133AR ANTI-SIEZE CMPD. 1 OZ.	EA	66	2.02
19132	133K ANTI-SIEZE CMPD 1/2 PT.	EA	66	6.02
19435	5/16" 8" SCREWDRIVER	EA	74	5.17
19700	6 1/2OZ ALUM EPOXY KIT	EA	52	8.61
19701	1# ALUM PUTTY EPOXY	EA	52	18.48
19708	1# PLASTIC STEEL EPOXY	EA	52	14.63
19716	1# STAINLESS STEEL EPOXY	EA	52	21.93
19748	8OZ OIL ADDITIVE	EA	66	2.83
19749	LEAK LOCK 1 1/2OZ	EA	66	1.06
19751	32OZ OIL ADDITIVE	EA	66	6.59
19770	5 MINUTE EPOXY PUTTY 20"	EA	66	17.91
19778	1 GAL CHLOROTHENE SOLVENT	EA	73	18.02
19797	LEAK LOCK 4OZ CAN	EA	66	2.59
19798	10016 LEAK LOCK 1 PINT	EA	66	8.20
19860	GLOSSY BLACK 16 OZ SPRAY ENAME	EA	65	2.66
19861	GLOSSY WHITE 16OZ SPRAY ENAMEL	EA	65	2.66
19862	BRITE SILVER 16OZ SPRAY ENAMEL	EA	14	2.66
19863	ASCOT GREY 16OZ SPRAY ENAMEL	EA	65	2.66
19900	1/4FIPT SOL VALVE	EA	37	19.56
19901	3/8FIPT SOL VALVE	EA	37	19.56
19902	1/4 & 3/8ODS SOL VALVE	EA	37	19.56
19903	1/4SAE SOL VALVE	EA	37	19.56
19904	1/4FIPT SOL VALVE	EA	38	22.77
19905	3/8FIPT SOL VALVE	EA	38	22.77
19906	3/8-1/2ODS SOL VALVE	EA	38	22.77
19907	1/2-5/8ODS SOL VALVE	EA	38	22.77
19908	1/4SAE SOL VALVE	EA	38	22.77
19909	3/8SAE SOL VALVE	EA	38	22.77
19910	3/8FIPT SOL VALVE	EA	38	26.27
19911	1/2-5/8ODS SOL VALVE	EA	38	26.27
19912	3/8SAE SOL VALVE	EA	38	26.27
19913	3/8FIPT SOL VALVE	EA	38	36.00
19915	1/2-5/8ODS SOL VALVE	EA	38	32.59
19916	5/8-7/8ODS SOL VALVE	EA	38	36.39
19917	5/8SAE SOL VALVE	EA	38	36.39
19918	3/8FIPT SOL VALVE	EA	38	45.31
19919	1/2-5/8ODS SOL VALVE	EA	38	39.90
19920	5/8-7/8ODS SOL VALVE	EA	38	39.90
19921	1/2FIPT SOL VALVE	EA	38	60.30
19922	5/8-7/8ODS SOL VALVE	EA	38	60.30
19923	1/2FIPT SOL VALVE	EA	38	68.45
19924	5/8-7/8ODS SOL VALVE	EA	38	68.45
19925	3/4FIPT SOL VALVE	EA	38	88.56
19926	7/8-1 1/8ODS SOL VALVE	EA	38	88.56
19927	3/4FIPT SOL VALVE	EA	38	97.47
19928	7/8-1 1/8ODS SOL VALVE	EA	38	97.47
19930	1 1/8ODS SOL VALVE	EA	38	112.08
19931	1"FIPT SOL VALVE	EA	38	130.14
19932	1 1/8ODS SOL VALVE	EA	38	130.14
19933	R23MM 24V COIL	EA	37	10.36

PART	DESCRIPTION	UOM	PAGE	PRICE
19934	110/120V COIL	EA	37	10.36
19935	208/240V COIL	EA	37	10.36
19936	DUAL COIL 110-240V	EA	37	13.71
19940	DISC BY MFG	EA	37	18.05
19941	3/8FIPT SOL VALVE	EA	37	29.17
19942	DISC BY MFG	EA	37	30.15
19943	3/4FIPT SOL VALVE	EA	37	44.09
19944	1/4FIPT SOL VALVE	EA	37	19.04
19945	3/8FIPT SOL VALVE	EA	37	30.46
19946	1/2FIPT SOL VALVE	EA	37	30.91
19947	3/4FIPT SOL VALVE	EA	37	40.05
19948	1"FIPT SOL VALVE	EA	37	73.87
19949	1 1/4FIPT SOL VALVE	EA	37	100.75
19950	1 1/2FIPT SOL VALVE	EA	37	132.12
19951	2"FIPT SOL VALVE	EA	37	294.91
19955	3/8FIPT SOL VALVE	EA	37	37.16
19956	1/2FIPT SOL VALVE	EA	37	37.99
19957	3/4FIPT SOL VALVE	EA	37	54.13
19958	G23MM 24V COIL	EA	37	10.36
19959	110/120V COIL	EA	37	10.36
19960	208/240V COIL	EA	37	10.36
19961	DUAL COIL 110/240V	EA	37	14.62
19962	1/4FIPT SOL VALVE	EA	37	25.21
19963	3/8FIPT SOL VALVE	EA	37	40.43
19964	1/2FIPT SOL VALVE	EA	37	41.35
19965	3/4FIPT SOL VALVE	EA	37	57.03
19966	1"FIPT SOL VALVE	EA	37	76.30
19967	1 1/4FIPT SOL VALVE	EA	37	102.34
19968	1 1/2FIPT SOL VALVE	EA	37	132.95
19972	1/4FIPT SOL VALVE	EA	37	33.28
19973	3/8FIPT SOL VALVE	EA	37	33.27
19974	1"FIPT SOL VALVE	EA	37	118.03
19975	OR23MM 24V COIL	EA	37	10.36
19976	110/120V COIL	EA	37	10.36
19977	208/240V COIL	EA	37	10.36
20009	BOX 100 PLSTC ANCHORS 6-10SCR	BOX	53	2.84
20010	BX 100 PLASTC ANCHR 10-12SCRW	EA	53	3.97
20011	BX 50 PLASTC ANCHR 14-16 SCRW	BOX	53	3.24
20030	FUSE PULLER	EA	80	4.60
20031	30-071 WIRE NUTS, 100 PER PKG	EA	53	3.37
20032	30-072 WIRE NUTS, 100 PER PKG.	PKG	53	3.73
20033	30-073 WIRE NUTS, 100 PER PKG.	PKG	53	4.52
20034	30-074 WIRE NUTS, 100 PER PKG.	PKG	53	5.25
20035	30-076 WIRE NUTS 100 PER PKG	PKG	53	7.42
20040	44 101 MARKER KIT	EA	79	9.64
20041	44 102 MARKER KIT	EA	79	9.64
20042	44 103 MARKER KIT	EA	79	9.64
20050	115V BLWR & SUCTION UNIT	EA	79	316.80
20051	230V BLWR & SUCTION UNIT	EA	79	356.40
20052	6800 BLOWER NOZZL	EA	79	4.95
20053	ATTACHMENTS FOR VACUUM	EA	79	57.42
20059	SMOOTHIE FOR COMMUTATORS	EA	82	5.29
20063	WIRE STRIPPER	EA	80	16.70
20080	40FT FISH TAPE IN REEL	EA	83	20.54
20081	100FT FISH TAPE IN REEL	EA	83	40.70
20089	VOLTAGE TESTER	EA	84	22.21
20144	6175 63 KIT	EA	79	18.24
20145	CRIMP TOOL & WIRE STRIPPER	EA	79	12.23
20340	COMP & FLYWL 1 CYL 1/4HP	EA	8	173.88
20341	COMP & FLYWL 1 CYL 1/6HP	EA	8	173.88
20342	COMP & FLYWL 2 CYL 1/3HP	EA	8	211.35
20343	COMP & FLYWL 2 CYL 1/4HP	EA	8	211.35
20344	COMP & FLYWL 2 CYL 1/2HP	EA	8	211.35
20400	8X16X1 FIBERGLASS FILTER	EA	46	.88
20402	10X25X1 FIBERGLASS FILTER	EA	46	.98
20404	12X25X1 FIBERGLASS FILTER	EA	46	.88
20440	20X25X1 FOAM FILTER	EA	46	3.87
20441	A/C FM FILTR 14 3/4X23 1/2X1/4	EA	46	1.55
20442	A/C FM FILTR 15X24X1/4"	EA	46	.94
20443	ROLL FOAM FILTR 24"X10'X1/4"	EA	46	7.32
20444	ROLL FOAM FILTR 24"X10'X1/2"	EA	46	12.44
20460	NAT HAIR FILTR 25"X36'X1"	EA	47	68.60
20461	NAT HAIR FILTR 25"X18'X2"	EA	47	45.66
20470	PLASTIC FILTER 15"X24"	EA	47	3.06
20471	ROLL PLASTIC FILTER 20"X10'	EA	47	19.39
20480	10X10X1 FIBERGLASS FILTER	EA	46	.88
20482	15X20X1 FIBERGLASS FILTER	EA	46	.88
20483	16X20X1 FIBERGLASS FILTER	EA	46	.88
20484	16X25X1 FIBERGLASS FILTER	EA	46	.88
20485	20X20X1 FIBERGLASS FILTER	EA	46	.88
20486	20X25X1 FIBERGLASS FILTER	EA	46	.98
20493	16X20X2 FIBERGLASS FILTER	EA	46	1.37
20494	16X25X2 FIBERGLASS FILTER	EA	46	1.37
20495	20X20X2 FIBERGLASS FILTER	EA	46	1.37
20496	20X25X2 FIBERGLASS FILTER	EA	46	1.49
20511	16X20X2 PLEATED FILTER	EA	47	3.85
20513	16X25X2 PLEATED FILTER	EA	47	4.50
20514	20X25X2 PEATED FILTER	EA	47	5.15
20515	24X24X2 PLEATED FILTER	EA	47	5.95
20524	20X25X4 PLEATED FILTER	EA	47	9.57
20525	24X24X4 PLEATED FILTER	EA	47	10.34
20567	12X20 5/8X1 FIBERGLASS FILTER	EA	46	1.19
20590	10X24X1 FIBERGLASS FILTER	EA	46	.89
20592	15X30 5/8X1 FIBERGLASS FILTER	EA	46	1.19
20601	PRESS CONTROL	EA	25	30.42
20602	PRESS CONTROL	EA	25	51.59
20603	DUAL PRESS CTRL	EA	25	57.23
20604	HI PRESS CTRL	EA	25	32.51
20607	TEMP CONTROL	EA	26	32.00
20608	TEMP CONTROL	EA	26	33.90
20610	PRESS CONTROL	EA	25	32.51
20629	TEMP CONTROL	EA	23	22.56
20637	HI PRESS CTRL	EA	25	59.92
20672	HI PRESS CTRL	EA	25	33.50
20675	LO PRESS CTRL	EA	25	27.67
20676	DU PRESS CTRL	EA	25	51.59
20684	AIR TEMP CTRL	EA	26	30.14
20685	AIR TEMP CTRL	EA	26	34.88
20687	TEMP CTRL	EA	26	34.35
20689	AIR COND CTRL	EA	24	22.85
20696	PRESS CTRL	EA	25	31.31
20698	PRESS CTRL	EA	25	28.14
20708	TEMP CTRL	EA	26	32.41
20709	TEMP CTRL	EA	26	28.57
20710	TEMP CTRL	EA	26	28.57
20711	TEMP CTRL	EA	26	30.48
20712	TEMP CTRL	EA	26	31.39
20714	TEMP CTRL	EA	26	30.14
20715	PRESS CTRL	EA	25	26.83
20716	PRESS CTRL	EA	25	27.67
20723	DUAL PRESS CTRL	EA	25	57.23
20770	PRESS CTRL	EA	25	33.50
20771	DUAL PRESS CNTRL	EA	25	58.99
20772	DUAL PRESS CTRL	EA	25	58.99
20773	TEMP CTRL	EA	26	53.72
20774	TEMP CTRL	EA	26	40.33
20775	ICE CREAM CTRL	EA	26	35.60
20776	ICE BANK CTRL	EA	24	41.66
20777	WIDE RANG TEMP CTRL	EA	26	31.24
20778	TEMP CTRL	EA	26	36.63
20779	TEMP CTRL	EA	26	36.71
20780	TEMP CTRL	EA	25	29.97
20781	TEMP CTRL	EA	24	31.87
20782	TEMP CTRL	EA	24	61.61
20788	4-WAY REV VALVE	EA	24	72.73
20900	TEMP CONT 15-55F	EA	31	50.24
20901	TEMP CONT -30-30F	EA	31	50.24
20902	PRESS CONT DUAL	EA	31	70.68
20921	3/8FIPT WATER VALVE	EA	43	39.56
20922	1/2FIPT WATER VALVE	EA	43	45.63
20925	3/4FIPT WATER VALVE	EA	43	52.55
20926	1"FIPT WATER VALVE	EA	43	110.84
20928	1 1/4FIPT WATER VALVE	EA	43	129.00
20937	PRESS CONT DUAL	EA	31	57.81
20942	COOLING TOWER CTRL	EA	31	75.29
20947	OIL PRESS CTRL 120 SEC	EA	31	72.26
20948	REV ACT CTRL	EA	31	29.14
20949	WEIGHTS	EA	43	4.45
20951	OIL PRESS CONT 60 SEC	EA	31	72.26
20952	OIL PRESS CONT 90 SEC	EA	31	72.26
20953	OIL PRESS CONT FOR AMMONIA	EA	31	110.98
20954	LIQ BATH TEMP CTRL	EA	31	42.74
20967	LIQ FLO SWITCH	EA	43	34.71
20970	PRESS CON 20" 100LB	EA	31	29.60
20971	PRESS CON DUAL	EA	31	56.46
20974	PRESS CON REV ACT LP	EA	31	31.90
20975	PRESS CON REV ACT HP	EA	31	30.03
21019	DOOR SWITCH PLATE	EA	50	2.40
21020	DOOR SWITCH ONE HOLE	EA	50	2.29
21021	DOOR SWITCH ROCKER	EA	50	2.51
21023	SWITCH TOGGLE DPST	EA	61	4.44
21024	SWITCH TOGGLE DPST	EA	61	7.13
21025	SWITCH TOGGLE DPST	EA	61	10.79
21026	SWITCH TOGGLE DPDT	EA	61	12.58
21032	TRIGGER SWITCH DPST	EA	61	7.03
21034	TRIGGER SWITCH DPST	EA	61	6.17
21035	TRIGGER SWITCH DPST	EA	61	9.25
21040	TOGGLER SWITCH SPST	EA	50	2.66
21041	TOGGLE SWITCH SPDT	EA	50	3.40
21043	TOGGLE SWITCH DPST	EA	50	3.60
21044	TOGGLE SWITCH DPDT	EA	50	4.40
21052	TOGGLE SWITCH 3PDT	EA	61	10.77
21053	TOGGLE SWITCH 3PST	EA	61	19.40
21099	SPDT TEMP CTRL	EA	31	37.49
21223	KIT FOR 3/8 WTR VALVE	EA	43	14.61
21224	KIT FOR 1/2 WTR VLV	EA	43	14.79
21225	KIT 3/4 WTR VLV	EA	43	18.60
21226	KIT FOR 1" WTR VLV	EA	43	30.87
21227	KIT FOR 1 1/4 WTR VLV	EA	43	46.94
21232	WATER VALVE LESS FLANGES	EA	43	159.95
21233	FLANGE 1 1/2FIPT FOR 21232	EA	43	42.96
21270	410 GREASE GUN	EA	79	11.65
21271	14OZ GR CARTRIDGE FOR 21270	EA	79	1.41
21290	GREASE GUN KIT	EA	79	11.14
21291	GREASE CART FOR 21290	EA	79	.56
21299	15 X 24 X 3/8 FIBERGLASS FLTR	EA	46	1.36
21302	TEMP CTRL 10' CAP -30-90F	EA	31	29.37
21303	TEMP CTRL 5' CAP -30-90F	EA	31	26.54
21304	TEMP CTRL AIR -30-90F	EA	31	27.26
21306	TEMP CTRL 5'CAP 20-75F	EA	31	28.80
21312	THERMOSTAT 20-90F	EA	32	39.18
21316	FAN DELAY DEFROST CTRL	EA	31	45.62
21317	AIR SWITCH .07 TO 12" WC	EA	31	27.96
21322	1F76-50 HTG&COOLING THERMOSTAT	EA	32	64.28
21345	HI TEMP ALARM	EA	56	84.86
21346	SENSOR 5F	EA	56	14.74
21347	SENSOR 50F	EA	56	14.74
21348	SENSOR -30 TO 150F	EA	56	47.33
21350	PRESS CONT FOR A/C 7-150LBS	EA	31	20.31
21351	2 HP PRESS CTRL	EA	31	22.14
21352	1HP PRESS CTRL W/LOCK OUT	EA	31	23.17
21353	LO PRESS CONT 2 POLE	EA	31	44.69
21354	HI PRESS CONT 1 POLE	EA	31	31.90
21356	TEMP CTRL -30-100F	EA	31	30.96
21357	TEMP CTRL 50-130F	EA	31	37.17
21380	5 1/2 WATER VLVE TEMP ACT	EA	43	120.93
21381	3/4 WATER VLVE TEMP ACT	EA	43	129.24
21382	SUMP PUMP SWITCH	EA	43	13.96
21383	SUMP PUMP SWITCH	EA	43	16.67
21384	1" V47AD-1 WATER VALVES	EA	43	188.83
21401	P637 3 GASKET	EA	18	.31
21408	CAN VALVE FOR DISP CYLS	EA	18	5.43
21424	CHARGING VALV 1/4F SAE X 1/4SA	EA	18	18.16
21462	LIQ IND 1/2ODS	EA	34	12.88
21463	LIQ IND 5/8ODS	EA	34	12.88
21465	LIQ IND 7/8	EA	34	20.16
21466	LIQ IND 1 1/8ODS	EA	34	23.04
21509	10" 5 BLADE CW 5/16 BORE	EA	63	3.20
21522	LIQ WRENCH 15OZ	EA	65	1.99
21547	LIQ IND 1/4X1/4SAE MALE	EA	34	5.13

PART	DESCRIPTION	UOM	PAGE	PRICE
21548	LIQ IND 3/8X3/8SAE MALE	EA	34	5.30
21549	LIQ IND 1/4FE X1/4SAE	EA	34	5.13
21550	LIQ IND 3/8FE X 3/8SAE	EA	34	5.30
21553	7" 5 BLADE CW FOR UNIT BRG MTR	EA	63	1.44
21554	8" 5 BLADE CW FOR UNIT BRG MTR	EA	63	1.87
21555	9" 5 BLADE CW FOR UNIT BRG MTR	EA	63	2.26
21556	10" 5 BLADE CW FOR UNIT BRG MT	EA	63	2.62
21557	LIQ IND 1/2X1/2SAE MALE	EA	34	7.89
21558	LIQ IND 5/8X5/8SAE MALE	EA	34	8.00
21559	LIQ IND 1/2FE X 1/2SAE MALE	EA	34	7.05
21560	8" 5 BLADE CW 1/4 BORE	EA	63	2.34
21562	8" 5 BLADE CCW 1/4 BORE	EA	63	2.34
21570	8" 5 BLADE CW 1/4 BORE	EA	63	2.34
21571	8" 5 BLADE CW 5/16 BORE	EA	63	2.34
21577	LIQ IND 5/8FE X 5/8 SAE	EA	34	7.33
21579	10" 5 BLADE CCW 5/16 BORE	EA	63	3.20
21592	14-0046 CHARTS -20/40F 24HR	EA	93	10.78
21593	7" 5 BLADE CCW FOR UNIT BRG MT	EA	63	1.44
21594	8" 5BLADE CCW FOR UNIT BRG MTR	EA	63	1.87
21595	DISC BY MFG	EA	63	2.26
21596	10" 5BLADE CCW FOR UNIT BRG MT	EA	63	2.62
21597	14-7019 TEMP DOOR -30/50F 24HR	EA	93	287.98
21598	14-0070 CHARTS -30/50F 24 HR	EA	93	10.78
21600	8" 5BLADE CW FOR UNIT BRG MTR	EA	63	1.87
21604	6" 4 BLADE CW 1/4 BORE	EA	63	1.42
21610	8" 5BLADE CCW FOR UNIT BRG MTR	EA	63	1.87
21614	6" 4 BLADE CCW 1/4 BORE	EA	63	1.42
21620	LO PRESS CTRL	EA	23	13.35
21621	LO PRESS CTRL	EA	23	13.35
21622	LO PRESS CTRL	EA	23	13.35
21630	PE HP 350 250 HI PRESS CTRL	EA	23	13.35
21631	PS HP 400 300 HI PRESS CTRL	EA	23	13.35
21632	PS HP 400 200 HI PRESS CTRL	EA	23	13.35
21633	PS HP 450 250 HI PRESS CTRL	EA	23	13.35
21670	LIQ IND 1/4ODS	EA	34	6.51
21671	LIQ IND 3/8ODS	EA	34	7.02
21672	LIQ IND 1/2ODS	EA	34	8.29
21673	LIQ IND 5/8ODS	EA	34	8.49
21674	MOIST LIQ IND 1/4SAE	EA	34	6.14
21675	MOIST LIQ IND 3/8SAE	EA	34	6.31
21676	MOIST LIQ IND 1/4FE X 1/4SAE	EA	34	6.14
21677	MOIST LIQ IND 3/8FE X 3/8SAE	EA	34	6.31
21678	MOIST LIQ IND 1/2SAE	EA	34	8.56
21679	MOIST LIQ IND 5/8SAE	EA	34	8.93
21681	MOIST LIQ IND 1/2FE X 1/2SAE	EA	34	8.65
21682	MOIST LIQ IND 5/8FE X 5/8SAE	EA	34	9.02
21683	MOIST LIQ IND 1/4ODS	EA	34	7.18
21684	MOIST LIQ IND 3/8ODS	EA	34	7.72
21685	MOIST LIQ IND 1/2ODS	EA	34	9.66
21686	MOIST LIQ IND 5/8ODS	EA	34	10.70
21769	81616 HANDY WIRE BRUSH	EA	77	1.01
21800	14-7006 TEMP DOOR -10/50F	EA	93	101.36
21804	14-7008 TEMP DOOR 40/100F	EA	93	101.36
21810	14-7003 TEMPSCRIBE DOOR	EA	93	242.64
21811	TEMP ON-OFF DOOR	EA	93	439.82
21813	TEMP ON-OFF DOOR	EA	93	439.82
21814	14-7031 BACK CASE 24HR CLOCK	EA	93	130.90
21815	14-7020 TEMP DOOR 10-90F	EA	93	287.98
21816	14-7021 TEMP DOOR 50-130F	EA	93	287.98
21817	14-7030 BACK CASE 7 DAY	EA	93	130.90
21820	14-0048 CHARTS -10/50F 24 HR	EA	93	10.78
21821	14-0069 CHARTS 10-90F 24 HR	EA	93	10.78
21822	14-0049 CHARTS -30-60F 24HR	EA	93	10.80
21828	14-0062 CHARTS 24HR OP	EA	93	10.80
21830	RED TEMP PEN PKG OF 2	PKG	93	7.44
21831	14-0082 CHARTS -30/50F 24 HR	EA	93	10.78
21836	14-0050 CHARTS 40-100F 7 DAY	EA	93	10.78
21840	14-0016 PEN FOR TEMP DOORS	EA	93	7.07
21851	TEST CORD ASSY	EA	90	17.26
21852	00831 CASE	EA	90	20.76
21978	U90 BLOWER	EA	20	116.12
21979	U120 BLOWER	EA	20	127.38
21980	U150 BLOWER	EA	20	147.22
21982	C130 BLOWER	EA	20	141.09
21983	C170 BLOWER	EA	20	159.66
21984	C230 BLOWER	EA	20	183.41
21989	C300 BLOWER	EA	20	227.67
21993	UM 130 BLOWER	EA	20	264.84
21994	UM 170 BLOWER	EA	20	294.85
21995	UM 230 BLOWER	EA	20	314.01
22000	TX9 PROPANE CYL	EA	68	3.10
22001	LEAK DETECTOR KIT	EA	68	24.78
22002	LEAK DETECTOR W/CYL	EA	69	19.50
22003	LEAK DETECTOR ONLY	EA	69	15.64
22004	REACTION PLATE	EA	69	2.56
22006	ORIFICE REPL	EA	69	1.80
22009	JT681 PEN BURNER	EA	68	10.65
22010	JT682 UTL BURNER	EA	68	10.99
22011	SOLD TIP SNAP ON	EA	68	4.23
22012	FLAME SPREADER	EA	68	3.48
22014	JT687 BURN BODY	EA	68	4.89
22015	TORCH KIT IN CASE	EA	69	20.85
22017	JT683C BURNER	EA	68	4.23
22021	OXYGEN FUEL TANK	EA	69	5.35
22023	TOTE KIT WELD-BRAZE	EA	69	34.10
22051	FLASHLIGHT	EA	84	3.07
22052	FLASHLIGHT W/MAGNET	EA	84	4.74
22053	FLASHLIGHT W/TESTER	EA	84	7.93
22054	SAFETY FLASHLIGHT	EA	84	5.25
22055	AAA BATTERIES	PKG	84	5.22
22056	AA 8 PACK BATTERIES	PKG	84	6.15
22057	C BATTERIES	EA	84	4.96
22058	D BATTERIES	PKG	84	4.96
22059	9 VOLT	PKG	84	8.95
22061	MIRROR 1" X 2" OVAL	EA	82	2.61
22062	REFILL FOR 22061	EA	82	.56
22063	MIRROR 2" X 3" RECT	EA	82	3.68
22064	REFILL FOR 22063	EA	82	.75
22093	T-110 TORCH W MAPP TIP	EA	70	34.80
22094	T 110 TORCH W PROPANE TIP	EA	70	34.80
22095	12 FT HOSE	EA	70	34.65
22096	OR320 MAPP OFFICE	EA	70	4.24
22097	T550 SUREFIRE TORCH	EA	70	47.78
22098	GP MAPP GAS ORIFICE & TIP	EA	70	6.47
22100	PRESSURE RED VALVE	EA	72	18.18
22101	DUAL REL & PRESS VALVE	EA	72	34.43
22105	OIL BURNER TRANSFORMER	EA	17	28.15
22106	OIL BURNER TRANSFORMER	EA	17	28.15
22107	OIL BURNER TRANSFORMER	EA	17	28.15
22108	OIL BURNER TRANSFORMER	EA	17	28.15
22158	DISC BY MFG	EA	43	48.23
22159	ZONE VALVE 5/8ODS	EA	43	46.22
22178	AB 1 AIR BOOSTER AUX BLOWER	EA	61	39.84
22180	120V OIL BURN TRANSFORMER	EA	17	26.44
22181	240V OIL BURN TRANSFORMER	EA	17	30.41
22182	MPO24F FLAT MOUNTING PLATE	EA	17	3.01
22183	MPO13F FLAT MOUNTING PLATE	EA	17	3.01
22184	MPO37H HINGED MOUNTING PLATE	EA	17	3.29
22185	MPO33H HINGED MOUNTING PLATE	EA	17	3.29
22200	GAL LIQ SCALE REMOVER	EA	73	6.49
22201	5GAL LIQ SCALE REMOVER	EA	73	21.44
22202	PERMAGUM 2LB PKG	EA	52	4.80
22207	D 50 SOLVENT DISC BY MFG	EA	19	143.82
22208	5GAL HVY DUTY SCALE REMOVER	EA	73	30.94
22228	ICE MACH CLEANER 8OZ	EA	65	2.21
22229	ICE MACH CLEANER GAL	EA	65	29.09
22240	2 WAY DRIER FILT H/P	EA	33	14.86
22241	2 WAY DRIER FILT H/P	EA	33	15.15
22242	2 WAY DRIER FILT H/P	EA	33	16.69
22243	2 WAY DRIER FILT H/P	EA	33	17.69
22273	43834 1 GAL VAC PUMP OIL	EA	72	8.62
22277	MIM 20 OZ SILICONE SPRAY	EA	65	4.35
22278	NAB 20 20 OZ LOOSENER/PENETRAN	EA	65	4.01
22279	SAC 20 20 OZ SOL/ DEGREASER	EA	65	3.84
22280	1GAL HYSPRAY	EA	73	3.99
22281	1GAL SPIN	EA	73	10.72
22283	1GAL AERODET	EA	73	4.66
22285	1QT 1TRIG S NWIPE	EA	73	3.53
22286	TRIGGER	EA	73	1.71
22290	30GAL HYSPRAY	EA	73	108.48
22293	5GAL AERODET	EA	73	22.54
22318	1/2 TEE NOMINAL PLASTIC	EA	20	.19
22319	3/4 TEE NOMINAL PLASTIC	EA	20	.21
22320	COUPLING 1/2 NOMINAL PLASTIC	EA	20	.10
22321	COUPLING 3/4 NOMINAL PLASTIC	EA	20	.13
22322	P TRAP 1/2 NOMINAL PLASTIC	EA	20	.86
22323	P TRAP 3/4 NOMINAL PLASTIC	EA	20	.86
22324	RUNTRAP 1/2 NOMINAL PLASTIC	EA	20	.86
22325	RUNTRAP 3/4 NOMINAL PLASTIC	EA	20	.86
22326	ADAPT 1/2X3/4MPT NOM PLASTIC	EA	20	.28
22327	ADAPT 3/4X3/4MPT NOM PLASTIC	EA	20	.15
22328	STREET ELBO 90F 1/2 NOM PLASTC	EA	20	.46
22329	STREET ELBO 90F 3/4 NOM PLASTC	EA	20	.55
22330	ELBOW 1/2X3/4FPT NOM PLASTIC	EA	20	.50
22331	ELBOW 3/4X3/4FPT NOM PLASTC	EA	20	.21
22332	ELBOW 1/2 NOMINAL PLASTIC	EA	20	.15
22333	ELBOW 3/4 NOMINAL PLASTIC	EA	20	.17
22334	PIPE STRAP (PKG OF 25) 1/2	EA	20	2.90
22335	PIPE STRAP (PKG OF 25) 3/4	EA	20	.09
22336	ELBOW 45F 1/2 NOM PLASTIC	EA	20	.24
22337	ELBOW 45F 3/4 NOM PLASTIC	EA	20	.38
22338	ADAPT 1/2X3/4FIPT	EA	20	.42
22339	ADAPT 3/4X3/4FIPT	EA	20	.21
22340	ELBOW 90F 1/2X3/4MIPT	EA	20	.71
22341	ELBOW 90F 3/4X3/4MIPT	EA	20	.41
22342	.84"ODX10' LONG 1/2NOM	EA	20	1.60
22343	1.05" OD X 10' LONG 3/4NOM	EA	20	2.01
22344	PVC CEMENT 1/4 PT	EA	20	1.91
22345	PVC CEMENT 1/2 PT	EA	20	2.81
22346	CLEANER 1 PT	EA	20	3.63
22347	CUTTER FOR PLASTIC & RUBBER	EA	80	11.62
22350	1/2X4" COMP COUP	EA	38	1.34
22351	3/4X4" COMP COUP	EA	38	1.77
22352	1/2X1/2X4 COMP TER	EA	38	1.65
22353	3/4X3/4X4 COMP TER	EA	38	2.04
22354	1/2X1/2FIPT ADAPTR	EA	38	1.12
22355	3/4X3/4FIPT ADAPTR	EA	38	1.28
22360	HANGING SCALE 70 LB	EA	78	37.41
22501	HAMERENCH IMPACT KIT	EA	82	22.13
22611	1/8X3 MASNRY DRILL	EA	83	2.34
22612	3/16 MASONARY BIT	EA	53	2.34
22613	225 1/4 X 4 MASNRY DRL ENVELOP	EA	53	2.15
22614	225 3/16 X 6 MASNRY DRL ENVELO	EA	83	2.39
22615	225 1/4 X 6 MASNRY DRL ENVELOP	EA	83	2.34
22617	225 5/16 X 4 MASNRY DRL ENVELO	EA	53	2.53
22618	225 5/16 X 6 MASNRY DRL ENVELO	EA	83	2.65
22619	225 3/8 X 6 MASNRY DRL ENVELOP	EA	83	2.99
22621	225 3/8 X 4 MASNRY DRL ENVELOP	EA	83	2.69
22622	225 7/16 X 6 MASNRY DRL ENVELO	EA	83	3.57
22623	225 1/2 X 6 MASNRY DRL ENVELOP	EA	83	3.46
22625	16OZ CLAW HAMMER	EA	74	13.99
22626	20 OZ CLAW HANDLE HAMMER	EA	74	15.92
22662	PUNCH AND CHISEL SET 5 PC	EA	82	17.62
22670	T 50 STAPLER	EA	79	21.56
22675	T 50 1/4 STAPLES BOX 5000	BOX	79	6.85
22676	T 50 5/16 STAPLES BOX 5000	BOX	79	7.24
22677	T 50 3/8 STAPLES BOX 5000	BOX	79	6.06
22678	T 50 1/2 STAPLES BOX 5000	BOX	79	9.32
22679	T 50 9/16 STAPLES BOX 5000	BOX	79	9.32
22695	T25 STAPLE GUN	EA	79	33.74
22697	T25 3/8 STAPLES BOX 5000	BOX	79	8.72
22698	T25 7/16 STAPLES BOX 5000	BOX	79	6.52
22699	T25 9/16 STAPLES BOX 5000	BOX	79	6.93
22700	1/4" MALE SAE X 1/4FE SAE	EA	18	3.35
22701	1/4"MALE SAE ELBOW X 1/4FE SAE	EA	18	3.53
22703	1/8FIPT X 1/4FE SAE	EA	18	2.05
22704	1/4FIPT X 1/4FE SAE	EA	18	3.35
22705	1/4FE SAE SEAL CAP	EA	18	.21
22706	VALVE CORE REMOVER CAP	EA	18	.15
22710	40153 MANIFOLD SET W/HOSES	EA	19	43.65

PART	DESCRIPTION	UOM	PAGE	PRICE
22711	40227 PLASTIC CARRYING CASES	EA	19	11.34
22730	43830 VAC PUMP OIL 6 PAK 1PT	EA	71	13.49
22754	ANGLE ACC VALVE 3/16-3/8	EA	44	4.89
22755	ANGLE ACC VALVE 1/2-5/8	EA	44	7.89
22760	HERM ACC VALVE 3/16-3/8	EA	44	6.22
22761	HERM ACC VALVE 3/8-1/2	EA	44	8.25
22772	P509 EXTRA GASKET	EA	18	.17
22788	ACC FTG 1/8MIPT X 1/4SAE	EA	18	.82
22789	ACC FTG 1/4MIPT X 1/4SAE	EA	18	.88
22790	ACC FTG 1/40DS X 1/4SAE	EA	18	.62
22791	ACC FTG 3/80DS X 1/4SAE	EA	18	1.02
22792	ACC FTG 3/160DS X 1/4SAE	EA	18	.62
22793	1/40D ON RUN TEE	EA	18	1.49
22794	3/8"OD ON RUN TEE	EA	18	1.86
22795	A31999 SCHRADER TYPE REPL VLV	EA	18	.26
22796	ACC FTG 3/160DS X 1/4SAE	EA	18	.62
22797	ACC FTG 5/160DS X 1/4SAE	EA	18	1.02
22798	5/160D ON RUN TEE	EA	18	1.49
22863	MA-85655 GOGGLES	EA	69	5.81
22864	GOGGLES FITS OVER GLASSES	EA	70	8.20
22887	DISC BY MFG	EA	67	4.15
22897	1/16 25M BRONZE ROD	EA	66	5.18
22898	3/32 25M BRONZE ROD	EA	66	4.55
22899	1/8 25M BRONZE ROD	EA	66	4.30
22966	TA 100 BLOWER	EA	20	130.63
22967	TA 130 BLOWER	EA	20	160.84
22968	TA 170 BLOWER	EA	20	191.18
23013	DRUM FACET	EA	43	7.57
23020	PLUG FOR 1/40D TUBE	EA	76	5.38
23021	PLUG FOR 3/80 DTUBE	EA	76	5.89
23022	PLUG FOR 1/20D TUBE	EA	76	6.38
23023	PLUG FOR 5/80D TUBE	EA	76	6.87
23024	PLUG FOR 3/40D TUBE	EA	76	7.38
23028	PLUG FOR 7/80D TUBE	EA	76	11.98
23029	PLUG FOR 1 1/80D TUBE	EA	76	13.44
23047	64293 GASKET	EA	18	.40
23048	350 FHA TUBE BEND KIT 6 SIZES	EA	75	382.16
23050	3/4 7/8 1" FLARE TOOL	EA	76	58.68
23058	401C TEST VALVE	EA	84	9.94
23062	REAMER BLADE	EA	75	5.41
23065	74197 WASHER	EA	75	.62
23084	ROL-AIR FLARE TOOL 3/16-5/8	EA	76	39.44
23086	BAR FOR 23084	EA	76	36.91
23089	FLARE & CUTTER KIT	EA	74	65.70
23093	FLARE TOOL 1/4-5/8	EA	75	20.34
23131	GASKET 12' LGHT	EA	49	10.16
23137	GASKET 12' LGHT	EA	49	16.08
23143	GASKET 12' LGHT	EA	49	7.07
23146	GASKET 12' LGHT	EA	49	8.22
23147	GASKET 12' LGHT	EA	49	13.08
23148	GASKET 12' LGHT	EA	49	9.90
23150	GASKET 12' LGHT	EA	49	11.66
23155	GASKET 12' LGHT	EA	49	8.48
23192	GASKET 12' LGHT	EA	49	21.03
23193	GASKET 12' LGHT	EA	49	8.57
23198	6387 GASKET	EA	49	9.45
23199	GASKET 12' LGHT	EA	49	10.07
23205	GASKET 30' ROLL	EA	49	89.14
23206	GASKET 30' ROLL	EA	49	101.43
23207	GASKET 30' ROLL	EA	49	242.17
23217	TRIPLE SEAL GASKET 10'	EA	49	8.39
23218	TRIPLE SEAL GASKET 10'	EA	49	20.94
23225	CEMENT 1 PINT	EA	50	10.78
23231	GASKET 14' LGHT	EA	49	26.77
23232	GASKET 14' LGHT	EA	49	25.89
23233	GASKET 14' LGHT	EA	49	26.77
23234	GASKET 14' LGHT	EA	49	26.77
23235	GASKET 14' LGHT	EA	49	26.77
23237	DISC BY MFG	EA	49	27.92
23238	GASKET 14' LGHT	EA	49	26.77
23240	GASKET 14' LGHT	EA	49	27.92
23261	GASKET 12' LGHT	EA	49	23.68
23524	ADAPTER 3/160D X 1/4SAE	EA	18	11.66
23525	ADAPTR 1/40D X 1/4SAE	EA	18	7.38
23526	ADAPTR 5/160D X 1/4SAE	EA	18	10.70
23527	ADAPTR 3/80D X 1/4SAE	EA	18	10.69
23767	818 SCRATCH AWL	EA	74	2.87
23833	HOLE SAW 9/16	EA	83	5.09
23834	HOLE SAW 5/8	EA	83	5.09
23844	HOLE SAW 3/4	EA	83	5.09
23845	HOLE SAW 7/8	EA	83	5.09
23846	HOLE SAW 1 1/8"	EA	83	5.39
23847	HOLE SAW 1 1/4"	EA	83	5.39
23848	HOLE SAW 1 3/8"	EA	83	5.68
23849	HOLE SAW 1 1/12"	EA	83	5.68
23850	HOLE SAW 1 3/4"	EA	83	7.09
23870	HOLE SAW 13/16	EA	83	5.09
23871	HOLE SAW 15/16	EA	83	5.09
23872	HOLE SAW 1"	EA	83	5.39
23873	HOLE SAW 1 1/16"	EA	83	5.39
23874	HOLE SAW 1 3/16"	EA	83	5.39
23875	HOLE SAW 1 5/16"	EA	83	5.39
23876	HOLE SAW 1 7/16"	EA	83	5.68
23877	HOLE SAW 1 9/16"	EA	83	5.68
23878	HOLE SAW 1 5/8"	EA	83	5.68
23879	HOLE SAW 1 11/16"	EA	83	5.68
23896	HOLE SAW 11/16	EA	83	5.09
23955	APPL TRUCK MAGNESIUM	EA	78	205.52
23957	PADDING FOR 23955	EA	78	11.98
23974	450LB CAP HAND TRUCK	EA	78	71.46
23985	S/3 2PC SET STRAP	EA	78	12.60
23988	DOLLY 30" X 18"	EA	78	39.60
23989	RECOIL UNIT	EA	78	34.16
24011	CALIPER 5" LONG	EA	79	7.01
24030	SCRIBER 9" LONG	EA	74	1.69
24054	79 CENTER PUNCH	EA	74	12.22
24055	POINTS REPL FOR 24054	EA	74	1.53
24072	MINI KNIFE	EA	82	2.20
24073	MINI KNIFE BLADES	EA	82	1.29
24210	NU-COIL COIL CLEANER ONE GAL.	EA	73	3.56
24214	INSULATION TAPE 2X1/8X30'	EA	52	6.21
24215	PERMAGUM 3/16" X 100'	EA	52	4.60
24216	PERMAGUM 3/8" X 25'	EA	52	4.50
24217	WO 40 16503 35X3	EA	52	2.74
24261	NU-COIL COIL CLEANER 15 GALLON	EA	73	45.82
24440	VO3FR 3/8 FLARE ROTALOCK VALVE	EA	13	8.82
24441	VO4FR 1/2 FLARE ROTALOCK VALVE	EA	13	10.58
24442	VO5FR 5/8 FLARE ROTALOCK VALVE	EA	13	11.25
24444	VO7SR 7/8 IDS ROTALOCK VALVE	EA	13	24.52
24445	VO9SR 1 1/8IDS ROTALOCK VALVE	EA	13	25.95
24446	TEFLON SEAL FOR 3/8 VLV	EA	13	.12
24447	TEFLON SEAL FOR 1/2 & 5/8	EA	13	.16
24448	TEFLON SEAL FOR 7/8 & 1 1/8	EA	13	.16
24449	1/2IDS ROTALOCK VALVE	EA	13	8.78
24450	HO3FT 3/8 FLARE ROTALOCK VALVE	EA	13	8.58
24451	HO4FT 1/2 FLARE ROTALOCK VALVE	EA	13	10.88
24452	HO5FT 5/8 FLARE ROTALOCK VLAVE	EA	13	10.94
24453	5/8IDS ROTALOCK VALVE	EA	13	12.08
24454	7/8IDS ROTALOCK VALVE	EA	13	15.30
24455	1 1/8IDS ROTALOCK VALVE	EA	13	16.58
24456	SPUD FOR 3/8 VALVE	EA	13	1.14
24457	SPUD FOR 1/2-5/8 VALVE	EA	13	1.69
24458	SPUD FOR 7/8-1 1/8 VALVE	EA	13	4.50
24459	3/8MPT ROTO VLV ADPT	EA	13	4.85
24460	1/2MPT ROTO VLV ADPT	EA	13	6.29
24461	3/4MPT ROTO VLV ADPT	EA	13	8.38
24497	CONDENSER W/C 1/3 HP	EA	22	53.59
24498	CONDENSER W/C 1/2 HP	EA	22	62.21
24499	CONDENSER W/C 3/4 HP	EA	22	70.64
24508	CONDENSER W/C 1 HP	EA	22	94.96
24538	6A 6 OD MTG BRKT	EA	22	10.44
24539	6B 6 5/8 MTG BRKT	EA	22	11.58
24540	8B 8 5/8 MTG BRKT	EA	22	13.01
24541	10B10 3/4 MTG BRK	EA	22	14.09
24620	COND REC 2HP	EA	22	260.83
24621	COND REC 3HP	EA	22	328.18
24622	COND REC 5HP	EA	22	398.04
24623	COND REC 7 1/2HP	EA	22	561.39
24625	COND 1/2HP	EA	22	92.38
24626	COND 1HP	EA	22	163.39
24629	CONDENSER 3HP	EA	22	328.76
24630	CONDENSER 5HP	EA	22	452.47
24633	VF-5 VERTICAL COOLED CONDENSER	EA	22	475.48
24634	VF-7 1/2	EA	22	679.25
24635	COND 7 1/2HP	EA	22	645.29
24640	T FLO DRIER 8 CU IN	EA	33	12.15
24641	T FLO DRIER 12 CU IN	EA	33	13.20
24642	T FLO DRIER 20 CU IN	EA	33	16.10
24643	T FLO DRIER 30 CU IN	EA	33	20.69
24691	RECEIVER 5" DIA X 14" H	EA	22	43.50
24692	RECEIVER 5" DIA X 16" H	EA	22	58.14
24693	RECEIVER 6" DIA X 18" H	EA	22	72.62
24694	RECEIVER 6" DIA X 23" H	EA	22	80.15
24720	1/4M SAE "T" FLO FTG	EA	33	15.80
24721	3/8M SAE T-FLO FTG	EA	33	16.04
24722	1/2M SAE T-FLO FTG	EA	33	17.01
24723	5/8M SAE T-FLO FTG	EA	33	17.25
24724	3/80DS T-FLO FTG	EA	33	16.04
24725	1/20DS T-FLO FTG	EA	33	17.01
24726	5/80DS T-FLO FTG	EA	33	17.25
24729	DRY EYE LIQ IND 1/4SAE	EA	34	9.23
24730	DRY EYE LIQ IND 3/8SAE	EA	34	9.23
24731	DRY EYE LIQ IND 1/2SAE	EA	34	9.72
24732	DRY EYE LIQ IND 1/4MXFE	EA	34	9.23
24733	DRY EYE LIQ IND 3/8MXFE	EA	34	9.23
24734	DRY EYE LIQ IND 1/2MXFE	EA	34	9.72
24761	3"X 33' SEALING STRIP	EA	52	10.63
24783	ND 1 COATING GAL NO DRIP	EA	52	9.15
24784	ND 1 COATING 5GAL NO DRIP	EA	52	35.36
24792	TAPE 2X1/8X30'	EA	52	6.22
24793	CORD 3/16" X 100'	EA	52	4.21
24794	GUM 2LB SLUG	EA	52	3.81
24949	PRESS CTRL	EA	25	30.86
24984	PRESS CTRL	EA	25	31.31
24990	HTG/AC CTRL	EA	24	34.75
24992	REVRG VL 1/2X3/80DS	EA	24	40.28
24993	REVRG VL 3/4X1/20DS	EA	24	69.62
24994	REVRG VL 7/8X1/20DS	EA	24	87.70
24995	REVRG VL 7/8X3/40DS	EA	24	87.70
24996	120V SOL COIL	EA	24	11.84
24997	208/240V SOL COIL	EA	24	12.46
24998	24V SOL COIL	EA	24	12.94
25000	TEMP CTRL	EA	23	19.34
25001	020/7002 LO PRESS	EA	25	43.55
25002	LO PRESS CTRL	EA	25	47.23
25007	DU PRESS CTRL	EA	25	75.24
25008	DU PRESS CTRL	EA	25	75.24
25009	HI PRESS CTRL	EA	25	27.20
25060	A30/185 REP CONT	EA	23	18.32
25061	A30/181 REP CONT	EA	23	18.32
25062	A30/184 REP CONT	EA	23	17.63
25063	A30/183 REP CONT	EA	23	19.30
25064	A30/180 REP CONT	EA	23	16.95
25065	A30/182 REP CONT	EA	23	19.08
25066	A30/260 REP CONT	EA	24	17.86
25067	A30/261 REP CONT	EA	24	17.86
25068	A30/262 REP CONT	EA	24	19.15
25069	A30/263 REP CONT	EA	24	17.86
25070	A30/301 REP CONT	EA	23	17.40
25072	A30/304 REP CONT	EA	23	18.82
25073	A30/305 REP CONT	EA	23	20.14
25080	A30/450 REP CONT	EA	25	15.50
25081	A30/451 REP CONT	EA	25	15.50
25082	A30/452 REP CONT	EA	25	19.23
25083	CAP TUBE TOOL	EA	25	.94
25095	PRESS CTRL	EA	25	31.94
25096	PRESS CTRL	EA	25	35.86
25256	DISC BY MFG NO SUB	EA	83	1.76
25260	DISC BY MFG	EA	83	8.09
25264	3/8 DRILL	EA	83	10.72

PART	DESCRIPTION	UOM	PAGE	PRICE
25276	DRILL SET 115 DRILLS	SET	83	190.72
25277	1/16 COBALT DRILL	EA	83	1.07
25278	3/32 COBALT DRILL	EA	83	1.07
25279	1/8 COBALT DRILL	EA	83	1.36
25280	5/32 COBALT DRILL	EA	83	1.54
25304	115 JBRS DRL 1/16	EA	83	.58
25305	115 JBRS DRL 5/64	EA	83	.58
25306	115 JBRS DRL 3/32	EA	83	.61
25307	115 JBRS DRL 7/64	EA	83	.61
25308	115 JBRS DRL 1/8	EA	83	.69
25309	115 JBRS DRL 9/64	EA	83	.78
25310	115 JBRS DRL 5/32	EA	83	.78
25311	115 JBRS DRL11/64	EA	83	.86
25315	STEEL TWIST DRILL 15/64"	EA	83	1.32
25460	HTG TAPE 120V 20'	EA	50	15.63
25461	B-6 42 WATTS 6FT CABLE	EA	50	4.95
25462	B-12 84WATTS 12FT CABLE	EA	50	6.56
25463	HTG TAPE 120V 6'	EA	50	7.91
25464	HTG TAPE 120V 12'	EA	50	9.19
25475	B-18 126WATTS 120V CABLE	EA	50	8.18
25476	B-24 168WATTS 24FT CABLE	EA	50	9.79
25477	ET-18 126WATTS 120V 18FT CABLE	EA	50	10.58
25478	ET-24 168WATTS 120V 24FT CABLE	EA	50	12.22
25479	ET-40 280WATTS 120V 40FT CABLE	EA	50	17.21
25480	ET-60 420WATTS 120V 60FT CABLE	EA	50	24.00
25481	B-40 280WATTS 120V 40FT CABLE	EA	50	14.14
25482	B-60 420WATTS 120V 60FT CABLE	EA	50	19.51
25634	HI LIM CTRL	EA	23	11.37
25639	HI LIM CTRL	EA	23	12.63
25647	GASKET	EA	51	.37
25700	120V 1000W HTR	EA	51	5.39
25701	120V 1500W HTR	EA	51	5.66
25705	240V 1500W HTR	EA	51	5.66
25707	240V 2000W HTR	EA	51	5.94
25708	240V 2500W HTR	EA	51	6.13
25709	240V 3000W HTR	EA	51	6.30
25710	240V 4000W HTR	EA	51	6.83
25711	240V 4500W HTR	EA	51	6.83
25712	240V 5000W HTR	EA	51	7.02
25713	240V 6000W HTR	EA	51	11.18
25785	120V 1500W HTR	EA	51	68.08
25790	240V 2000W HTR	EA	51	60.80
25792	240V 3000W HTR	EA	51	63.28
25793	GTRF GASKET 411088	EA	51	.37
25809	240V 3000W HTR	EA	51	106.56
25843	HTG TAPE 120V 40'	EA	50	20.34
25844	HTG TAPE 120V 100'	EA	50	30.33
25845	HTG TAPE 120V 100'	EA	50	32.13
25854	HLC HIGH LIMIT CONTROL 411598	EA	23	5.93
25855	TG8TA GASKET 411820	EA	51	.34
25856	TG17R GASKET 411811	EA	51	.92
25857	BOLTS SET OF 4	SET	51	1.11
25858	HTG TAPE 240V 12'	EA	50	11.66
25859	HTG TAPE 240V 18'	EA	50	13.41
25860	HTG TAPE 240V 24'	EA	50	15.14
25861	HTG TAPE 240V 30'	EA	50	16.90
25862	HTG TAPE 240V 36'	EA	50	18.65
25863	HTG TAPE 240V 48'	EA	50	22.13
25864	HTG TAPE 240V 60'	EA	50	25.62
25866	120V 1000W HTR	EA	51	5.57
25867	AL1712 120V 1250W 415353	EA	51	5.66
25868	AL1715 120V 1500W 415361	EA	51	5.86
25870	AH1710 240V 1000W 415214	EA	51	5.57
25872	AH1715 240V 1500W 415230	EA	51	5.86
25873	AH1720 240V 2000W 415249	EA	51	6.13
25874	AH2725 240V 2500W 415257	EA	51	6.30
25875	AH2730 240V 3000W 415265	EA	51	6.75
25876	AH2735 240V 3500W 415273	EA	51	6.91
25877	AH2740 240V 4000W 415281	EA	51	7.09
25878	AH2745 240V 4500W 415290	001	51	7.20
25879	AH2750 240V 5000W 415302	EA	51	7.73
25881	ADF-1 415011	EA	51	2.37
25882	ADF-2 415020	EA	51	3.32
25980	ARTMW 10L 120V 1000W 420419	001	51	101.68
25981	ARTMW10 240V 1000W 420267	001	51	101.68
25982	ARTMW 15L 120V 1500W 420435	001	51	101.68
25983	ARTMW 15 240V 1500W 420283	EA	51	101.68
25990	R5025C SGLE THROW THERM 411133	EA	23	6.05
25992	R5135C DBLE THRW THERM 411141	EA	23	8.26
26152	MAU FAN F10B	EA	64	5.09
26153	MAU FAN F12B	EA	64	6.18
26154	MAU FAN F14B	EA	64	6.48
26155	MAU FAN F16B	EA	64	7.09
26156	F10S FAN	EA	64	5.09
26157	F12S HI PRESS FAN	EA	64	6.18
26158	MAU FAN F14S	EA	64	6.48
26159	MAU FAN F16S	EA	64	7.09
26537	MAU BUSH XBF 3/4	EA	64	24.64
26538	MAU BUSH XBF 7/8	EA	64	24.64
26539	MAU BUSH XBF 1	EA	64	24.29
26546	XBF 1 1/8 BUSH	EA	64	24.64
26548	XB 1 3/8 BUSH	EA	63	5.25
26553	XB 3/4 BUSH	EA	63	5.25
26555	XB 7/8 BUSH	EA	63	5.25
26559	XB 1 1/8 BUSH	EA	63	5.25
26561	XB 1 1/4 BUSH	EA	63	5.25
26563	AX50 PULLEY	EA	63	11.02
26565	AX60 PULLEY	EA	63	12.88
26596	RF15 UNIQUIP LUBRICATOR	EA	66	27.46
26597	RF30 UNIQUIP LUBRICATOR	EA	66	35.04
26600	DX2300 PULLEY	EA	63	18.00
26602	DX2350 PULLEY	EA	63	20.32
26604	DX2400 PULLEY	EA	63	23.06
26607	DX2500 PULLEY	EA	63	26.11
26610	DX2600 PULLEY	EA	63	28.51
26627	DX4360 PULLEY	EA	63	21.47
26629	DX4400 PULLEY	EA	63	22.06
26631	DX4460 PULLEY	EA	63	25.38
26632	DX4500 PULLEY	EA	63	26.11
26633	DX4520 PULLEY	EA	63	28.27

PART	DESCRIPTION	UOM	PAGE	PRICE
26691	E1111-O DEFROST TIMER	EA	27	9.26
26692	A1111-O DEFROST TIMER	EA	27	9.26
26693	D1111-O DEFROST TIMER	EA	27	9.26
26694	B1111-O DEFROST TIMER	EA	27	9.26
26766	AIR COND.,HTG REF NOTEBOOK	EA	73	6.53
26768	TROUBLE SHOOTER	EA	73	36.96
26780	REFRIGER. REFERENCE NOTEBOOK	EA	73	6.53
26827	632-00 DEFROST CONTROL	EA	27	113.99
26828	632-20 DEFROST CONTROL	EA	27	112.35
26829	AUTOMATIC TIMER&PRESSURE DEFR	EA	27	133.50
26830	DISC BY MFG	EA	27	128.77
26831	8245-20 DEFROST CONTROL	EA	27	125.47
26832	8247-20 DEFROST CONTROL	EA	27	131.22
26839	4003-00S 7 DAY TIMER	EA	27	44.45
26840	4004-71S 7 DAY TIMER	EA	27	50.86
26841	8141-00 DEFROST CONTROL	EA	27	82.84
26842	8141-20 DEFROST CONTROL	EA	27	87.75
26843	8143-00 DEFROST CONTROL	EA	27	82.84
26844	8143-20 DEFROST CONTROL	EA	27	87.75
26845	8145-00 DEFROST CONTROL	EA	27	65.50
26846	8145-20 DEFROST CONTROL	EA	27	80.55
26847	X3596 SET OF 5 PINS (A-1031)	SET	27	1.42
26848	7008-00 7 DAY CONTROL	EA	27	67.75
26849	7008-71 7 DAY CONTROL	EA	27	71.02
26863	4001-00 24 HOUR CONTROL	EA	27	26.60
26864	4003-00 24 HOUR CONTROL	EA	27	34.44
26867	4004-71 24 HOUR CONTROL	EA	27	36.08
26874	8045-00 DEFROST CONTROL	EA	27	70.86
26875	8045-20 DEFROST CONTROL	EA	27	73.16
26876	8043-20 DEFROST CONTROL	EA	27	73.16
26877	8047-20 DEFROST CONTROL	EA	27	79.39
26879	X2772 TRIPPER (A1030)	EA	27	1.07
26881	A-769-00 DEFROST CONTROL	EA	27	12.99
26882	B-769-00 DEFROST CONTROL	EA	27	13.88
26883	D-769-00 DEFROST CONTROL	EA	27	13.88
26884	E-769-00 DEFROST CONTROL	001	27	13.88
26885	F-769-00 DEFROST TIMER	EA	27	13.88
26886	G-769-00 DEFROST TIMER	EA	27	15.13
26887	J-769-00 DEFROST CONTROL	EA	27	13.88
26888	A-770-00 DEFROST CONTROL	EA	27	19.40
26889	D-770-00 DEFROST CONTROL	EA	27	18.87
26890	E-770-00 DEFROST CONTROL	EA	27	21.72
26891	F-770-00 DEFROST CONTROL	EA	27	18.87
26892	G-770-00 DEFROST CONTROL	EA	27	21.36
26893	J-770-00 DEFROST CONTROL	EA	27	19.76
26894	K-770-00 DEFROST CONTROL	EA	27	18.87
26895	L-770-00 DEFROST CONTROL	EA	27	18.87
26896	A-771-00 DEFROST CONTROL	EA	27	29.90
26897	A-789-00 DEFROST CONTROL	EA	27	32.93
26898	B-789-00 DEFROST CONTROL	EA	27	32.93
26899	D-789-00 DEFROST CONTROL	EA	27	32.93
26980	03566 8" FLAT BASTARD FILE	EA	78	4.37
26981	03665 10" FLAT BASTARD FILE	001	78	5.44
26982	04896 8" HALF RD. BASTARD FLE	001	78	6.18
26983	04995 10" HLF RD BASTARD FILE	001	78	7.70
26984	11716 6" RD. BASTARD FILE	EA	78	2.90
26985	11904 8" RD. BASTARD FILE	EA	78	3.33
26986	14224 6" TAPER SLIM FILE	EA	78	2.29
26987	21485 #1 FILE HANDLE	EA	78	1.42
26988	21494 #2 FILE HANDLE	EA	78	1.34
26989	21503 #3 FILE HANDLE	EA	78	1.25
26990	06601 8" TWO WAY FILE	EA	78	4.88
27050	BCA48 H1 VAC HOSE	EA	19	18.21
27051	BCA60 H1 VAC HOSE	EA	19	20.60
27061	3/8" 36" LONG STANDARD HOSE	EA	19	12.14
27062	3/8" 48" LONG STANDARD HOSE	EA	19	13.82
27063	3/8" 60" LONG STANDARD HOSE	EA	19	15.50
27064	SET OF 3 36" HOSES	SET	19	13.83
27065	SET OF 3 60" HOSES	SET	19	20.37
27066	SET OF 3 72" HOSES	SET	19	22.72
27075	100QAL MANIFW/GA	EA	19	20.36
27077	DISC BY MFG	EA	19	6.96
27078	DISC BY MFG	EA	19	8.09
27080	EXT 70W DR LATCH	EA	49	11.62
27082	EXT 140W DR LATCH	EA	49	12.40
27086	EXT 235W DR LATCH	EA	49	8.76
27090	36" BLUE HOSE 11236	EA	19	5.06
27091	36" WHITE HOSE 11436	EA	19	5.07
27092	36" RED HOSE 11636	EA	19	5.13
27093	36" YELLOW HOSE 11036	EA	19	5.07
27094	60" BLUE HOSE 11260	EA	19	7.67
27095	60" WHITE HOSE 11460	EA	19	7.67
27096	60" RED HOSE 11660	EA	19	7.67
27097	60" YELLOW HOSE 11060	EA	19	7.67
27100	12210 0001 PUMP	EA	70	117.32
27117	3010 1013 PUMP	EA	70	56.57
27119	3398 0001 IMPELLR	EA	70	8.02
27123	11810 0003 PUMP	EA	70	261.32
27130	6360 1001 PUMP	EA	70	75.38
27135	90105 0003 KIT	EA	70	33.34
27149	11818 0003 PUMP	EA	70	88.47
27158	90061 0003 KIT	EA	70	10.40
27204	90092 0003 KIT	EA	70	9.38
27390	60071 MIMI SAW	EA	78	5.68
27391	DISC BY MFG	EA	78	.50
27453	340-5 MODERN REFRIG. & A/C	EA	73	30.03
27454	422-3 LAB MANUAL	EA	73	6.10
27461	AUTO AIR COND MANUAL	EA	73	15.84
27462	WINDOW UNIT MANUAL	EA	73	15.84
27463	RESIDENTIAL HEATING MANUAL	EA	73	15.84
27464	COMMERCIAL REFRIG MANUAL	EA	73	15.84
27467	21 PC SET TWIST DRILL	EA	83	36.96
27468	29 PCS TWIST DRILL SET	EA	83	73.92
27482	17 PC HOLE SAW KIT	EA	83	99.18
27484	13 PCS HOLE SAW KIT	EA	83	75.82
27491	HEAVY DUTY CORDLESS DRILL	EA	84	143.78
27492	HEAVY DUTY HOLE SHOOTER	EA	84	131.61
27493	HEAVY DUTY SWIVEL HEAD SHEAR	EA	83	156.72
27494	HEAVY DUTY CORDLESS SCRWDR RVR	EA	84	75.32
27495	HEAVY DUTY MAGNUM HAMMER DRILL	EA	83	198.56

PART	DESCRIPTION	UOM	PAGE	PRICE
27496	HEAVY DUTY HAMMER DRILL	EA	83	140.74
27497	HEAVY DUTY MAGNUM HOLE SHOOTER	EA	84	120.96
27498	HEAVY DUTY SAWZALL	EA	84	155.20
27499	HEAVY DUTY RVR HD DRL RGT AGL	EA	84	218.34
27721	DISC BY MFG NO SUB	EA	50	1.54
27723	80 WEATHERSTRIP	EA	50	6.87
27724	90 50 RUB/R/SHIM	EA	50	8.49
27725	100 50 RUB/R/SHIM	EA	50	10.52
27726	84 50 RUB/R/SHIM	EA	50	9.49
27727	94 50 RUB/R/SHIM	EA	50	11.32
27728	104 50 RUB/R/SHIM	EA	50	14.01
27729	88 50 RUB/R/SHIM	EA	50	12.91
27730	98 50 RUB/R/SHIM	EA	50	14.98
27731	108 50 RUB/R/SHIM	EA	50	19.20
27740	1/4"X2"X30' SOFT SPONGE STRIPS	EA	49	9.05
27741	1/4"X3"X30' SOFT SPONGE STRIPS	EA	49	10.06
27742	3/8"X2"X30' SOFT SPONGE STRIPS	EA	49	13.03
27743	3/8"X3"X30' SOFT SPONGE STRIPS	EA	49	22.25
27744	1/2"X3"X30' SOFT SPONGE STRIPS	EA	49	25.15
27749	672 1 1/2X60 YDS SILVER	EA	51	10.43
27750	672 2X60 YDS SILVER	EA	51	13.89
27751	672 3X60 YDS SILVER	EA	51	20.85
27754	1144-50 GASKET	EA	50	1.52
27918	PZ 4291 189110 COUPLER	EA	72	3.84
28106	CRANKCASE HTR W/SPRING	EA	13	5.89
28107	AE-GE MOUNTING KIT	EA	12	8.56
28160	CCH 1 FREEZGARD CRKCS HTR 120V	EA	13	15.02
28161	CCH2 FREEZGARD CRKCS HTR 240V	EA	13	15.02
28163	BRASS BEARING ASSY	EA	72	70.62
28164	BODY GASKET	EA	72	.84
28166	IMPELLER ASSY	EA	72	8.85
28168	MOTOR MOUNTS	EA	72	9.70
28170	DISC BY MFG	EA	72	70.20
28171	118844 BEARING ASSEMBLY	EA	72	43.62
28172	118681 SEAL KIT NO. 7	EA	72	15.50
28173	118368 FLANGE GASKET SET	EA	72	1.95
28180	S106-1A-45-75C RELAY	EA	16	13.60
28181	S106-1B-65-45C RELAY	EA	16	14.34
28182	L59-3BT-250 LIMIT CONTROL	EA	16	8.58
28183	L59-7BT-250 LIMIT CONTROL	EA	16	9.17
28184	F47-3TD-120-25C FAN CONTROL	EA	32	10.40
28185	F47-7TD-120-25C FAN CONTROL	EA	32	11.18
28186	FALTS57C-051-120-250	EA	32	19.94
28187	PR-24-36W PILOT REIGNITER	EA	16	22.99
28189	SERIES -100	EA	72	99.99
28190	101001 PAIR OF FLANGES	EA	72	4.98
28191	101002 PAIR OF FLANGES	EA	72	4.98
28192	101003 PAIR OF FLANGES	EA	72	4.98
28193	101004 PAIR OF FLANGES	EA	72	4.98
28230	LR20 LITTLE RED PUMP	EA	72	57.99
28355	40015 12OZ WD40	EA	65	2.51
28356	40101 1 GAL WD40	EA	65	10.94
28357	40301 SPRAY CAN	EA	65	2.04
28360	DISC BY MFG	EA	65	45.00
28365	101 REFILL TUBE	EA	65	28.76
28384	J2 REFILL TUBE	EA	65	28.76
28388	4-1/2 OZ BRICKETTE DEEP PURPLE	EA	65	23.13
28390	L-1 LIQUID FEEDER	EA	65	45.00
28391	M-55 1 GAL UNIT MICROBIOCIDE	EA	65	29.93
28393	870 1 GAL SCALE INHIBITOR	EA	65	23.52
28515	41429 GASKET	EA	13	1.56
28700	9200 TRIM TO SIZE	EA	47	1.81
28703	FILTER 10X20X1	EA	47	3.35
28711	FILTER 15X20X1	EA	47	4.95
28712	TRIM TO SIZE FILTER	EA	47	10.95
28716	FILTER 16X20X1	EA	47	4.88
28719	FILTER 16X25X1	EA	47	5.82
28738	FILTER 20X20X1	EA	47	5.34
28739	FILTER 20X25X1	EA	47	6.45
28753	FILTER 16X20X2	EA	47	8.51
28754	FILTER 16X25X2	EA	47	9.97
28755	FILTER 20X20X2	EA	47	9.91
28756	FILTER 20X25X2	EA	47	11.75
28773	411 PINT KOTER	EA	47	2.37
28775	413 KOTER	EA	47	73.76
28776	418 PINT KOTER	EA	47	3.21
28778	915 15X20X1	EA	47	6.00
28779	914 16X20X1 FILTE	EA	47	6.00
28780	913 16X25X1 FILTE	EA	47	8.02
28781	912 20X20X1 FILTE	EA	47	6.84
28782	911 20X25X1 FILTE	EA	47	8.61
28785	904 16X20X2 FILTE	EA	47	12.21
28786	903 16X25X2 FILTE	EA	47	15.90
28787	902 20X20X2 FILTE	EA	47	14.12
28788	901 20X25X2 FILTE	EA	47	16.50
28791	934 16X20X2 FILTE	EA	47	12.66
28792	933 16X25X2 FILTE	EA	47	15.59
28793	932 20X20X2 FILTE	EA	47	14.72
28794	931 20X25X2 FILTE	EA	47	17.44
28900	#22 WIRE GAUGE 10'NICHROME	EA	51	5.24
28943	DOUBLE CUT DESIGN SNIP	EA	81	12.96
28946	LEFT SIDE AVIATION SNIPS	EA	81	9.97
28947	RIGHT SIDE AVIATION SNIPS	EA	81	9.97
28948	COMBINATION CUT AVIATION SNIPS	EA	81	9.97
28949	9"BULLDOG AVIATION SNIPS	EA	81	10.65
28953	LEFT ANGLE ZIP SNIPS	EA	81	11.81
28954	RIGHT ANGLE ZIP SNIPS	EA	81	11.81
28960	6" ADJ WRENCH	EA	81	10.37
28961	8" ADJ WRENCH	EA	81	11.73
28964	25FT DROP LIGHT	EA	84	5.73
28965	50 FT DROP LIGHT	EA	84	16.17
28966	KNIFE	EA	82	4.06
28967	BLADES	EA	82	.86
28971	8OZ BALL PEIN HAMMER	EA	74	9.95
28972	12 OZ BALL PEIN HAMMER	EA	74	10.30
28973	16OZ BALL PEIN HAMMER	EA	74	11.17
28997	DUCKBILL SNIP	EA	82	6.11
28998	DUCKBILL SNIP	EA	82	8.15
28999	DUCKBILL SNIP	EA	82	10.15
29030	CD 16 CELLER DRA	EA	70	101.64
29034	PAB-1X (801105) CNDNST PUMP	EA	71	44.21
29035	AX2-X115 (851030) RESERVOIR	EA	71	111.60
29036	AX2-X230 (851032) RESERVIOR	EA	71	121.54
29079	VAC PUMP OIL	EA	72	22.05
29101	8" PIPE WRENCH	EA	81	11.91
29102	10" PIPE WRENCH	EA	81	15.92
29104	14" PIPE WRENCH	EA	81	20.98
29105	18" PIPE WRENCH	EA	81	29.88
29106	24" PIPE WRENCH	EA	81	46.98
29181	P1511 SUMP PUMP	EA	70	112.96
29206	6 OZ SILVER SOLDER FLUX 22305	EA	67	2.22
29211	4 OZ ALUM FLUX TU-5 22604	EA	67	3.97
29212	1 LB ALUMINUM FLUX TU-5 22607	EA	67	13.52
29213	1 LB ALUM SOLDER #55 36607	EA	67	7.53
29217	HEAT-SEAL STIK 11575 (12)	EA	67	4.34
29218	1/2 LB FAST 50/50 32006	EA	67	4.73
29219	1 LB FAST 50/50 32007	EA	66	9.00
29230	SLIC-TITE STIK 41600	EA	52	2.16
29231	1/2 PT SLIC-TITE PASTE 42019	EA	66	4.59
29233	1 PT SLIC-TITE 42029	EA	66	7.70
29240	4 OZ ALUM FLUX PASTE 22404	EA	67	2.97
29241	1 LB ALUM FLUX PASTE 22407	EA	67	9.89
29242	4 OZ REG FLUX PASTE 22104	EA	67	1.35
29243	1 LB REG FLUX PASTE 22107	EA	67	4.00
29245	AL FLUX PASTE&#60 SOLDER 36474	EA	67	4.38
29246	1/4 LB #60 ALUMINUM SOLDER	EA	67	8.09
29250	PIPE THRD SEALANT 49006	EA	52	2.03
29251	PIPE THRD SEALANT 49050	EA	52	5.81
29304	25XS HEAT EXCH.	EA	21	37.00
29305	50XS HEAT EXCH.	EA	21	44.40
29306	75XS HEAT EXCH.	EA	21	51.80
29307	120XS HEAT EXCH.	EA	21	81.40
29308	200XS HEAT EXCH.	EA	21	103.60
29309	500XS HEAT EXCH.	EA	21	207.20
29310	1000XS HEAT EXCH.	EA	21	362.60
29321	501 OIL SEPARATOR	EA	13	86.04
29322	502 OIL SEPARATOR	EA	13	88.92
29323	503 OIL SEPARATOR	EA	13	91.80
29324	504 OIL SEPARATOR	EA	13	95.04
29325	505 OIL SEPARATOR	EA	13	105.12
29326	SEPERATOR 506	EA	13	182.52
29327	SEPERATOR 507	EA	13	197.28
29400	3701 SUCT ACCUM	EA	13	16.19
29401	3702 SUCT ACCUM	EA	13	20.00
29402	3703 SUCT ACCUM	EA	13	20.25
29403	3738 SUCT ACCUM	EA	13	26.61
29404	3700 SUCT ACCUM	EA	13	35.46
29405	3706 SUCT ACCUM	EA	13	48.75
29406	3704 SUCT ACCUM	EA	13	65.33
29410	1917 RECEIVER	EA	22	20.88
29411	1921 RECEIVER	EA	22	25.06
29412	1918 RECEIVER	EA	22	27.01
29413	1911 RECEIVER	EA	22	37.15
29414	3212 RECEIVER	EA	22	47.60
29420	M5 DISCH MUFEL	EA	22	13.54
29421	M10 DISCH MUFEL	EA	22	16.21
29422	M15 DISCH MUFEL	EA	22	20.74
29423	M20 DISCH MUFEL	EA	22	24.08
29424	M30 DISCH MUFEL	EA	22	31.52
29515	GH 221 10FT ALU H	EA	51	3.58
29516	GH 222 24FT ALU H	EA	51	3.07
29517	GH 223 14.5 ALU H	EA	51	3.67
29518	GH 224 27.5 ALU H	EA	51	6.23
29519	GH 225 10.5 ALU H	EA	51	4.60
29520	GH 226 10.5 ALU H	EA	51	5.72
29521	GH251 DRAIN TU HT	EA	51	5.46
29522	GH252 DRAIN TU HT	EA	51	6.23
29620	CONDSR B1/2 COPP	EA	22	36.77
29621	CONDSR B3/4 COPP	EA	22	43.34
29622	CONDSR B1 COPP	EA	22	57.27
29623	CONDSR B11/2 COPP	EA	22	85.86
29624	CONDSR B2 COPP	EA	22	102.87
29625	CONDSR B3 COPP	EA	22	144.67
29626	CONDSR B5 COPP	EA	22	273.05
29628	B7 1/2 TRO B COPP	EA	22	424.85
29630	B 10 TROM B COPP	EA	22	509.33
29631	CONDSER H 1/3 COPPER	EA	22	32.48
29632	CONDSR H1/2 COPP	EA	22	36.77
29633	CONDSR H3/4 COPP	EA	22	43.34
29634	CONDENSER H 1 COPPER	EA	22	57.27
29635	CONDSR H11/2 COPP	EA	22	87.16
29636	CONDSR H2 COPP	EA	22	102.87
29637	H 3 HEL AH COPPER	EA	22	144.67
29639	CONDSR S1 COPP	EA	22	57.27
29640	CONDSR S11/2 COPP	EA	22	87.16
29641	CONDSR S2 COPP	EA	22	102.87
29642	CONDENSER S 3 COPPER	EA	22	144.67
29643	CONDSR S5 COPP	EA	22	258.80
29644	S7 1/2 SPR S COPP	EA	22	425.09
29720	TA-5 TEFLON TAPE	EA	52	1.20
29841	P412 1/4 X 520	EA	52	2.47
29842	P412 1/2X520 IN	EA	52	4.75
29849	TA-1 ELECTRIC TAPE	EA	52	2.11
29860	239 21/2X60YD	EA	52	11.12
29870	237 2X50YD	EA	51	5.22
29871	237 2 1/2X50YD	EA	51	6.53
29874	P167 3/4X60YDS	EA	51	2.72
29875	670 2X60YD BLACK	EA	52	9.55
29876	234 1 1/2X60YD	EA	51	4.61
29877	234 2X60YD	EA	51	6.14
29878	234 3X60YD	EA	51	9.22
2M140	X46F FOLDING RULE INSIDE READ	EA	84	12.08
30500	020/7006 CONTROL	EA	25	47.23
30503	012/1554 CONTROL	EA	25	61.36
30515	016/104 CONTROL	EA	26	30.22
30516	016/111 CONTROL	EA	26	33.87
30520	016/527 CONTROL	EA	26	32.41
30527	F25/107 CONTROL	EA	26	28.00
30530	P30/3801 CONTROL	EA	26	74.81
30538	A30 204 LOW AMB C	EA	24	19.15

PART	DESCRIPTION	UOM	PAGE	PRICE
30539	D52 101 D ICER CO	EA	25	29.72
30544	012 1502 HI PR CO	EA	25	58.52
30547	A30 307 REPL CONT	EA	23	18.32
30582	A30/308 CONTROL	EA	23	17.71
30596	A12/700 CONTROL	EA	23	22.56
30597	A12/701 CONTROL	EA	23	22.56
30598	A22/2451 CONTROL	EA	25	19.99
30599	A22/2453 CONTROL	EA	25	25.00
30602	G20 4050 SAFT LIM	EA	23	20.90
30603	G20 4051 REPL CON	EA	23	20.90
30604	G23 5052 REPL CON	EA	23	22.80
30605	G20 4412 REPL CON	EA	23	22.04
30606	G23 5253 REPL CON	EA	23	23.86
30763	T34 129 TIMER	EA	16	25.16
30766	T34 132 DEF TIMER	EA	16	26.25
30769	T34 131 CYC DELAY	EA	16	25.86
30771	T34 133 CYC DELAY	EA	16	24.93
30772	T34 153 CYC DELAY	EA	16	26.25
30780	US1 C1000 RANCO	EA	24	21.39
30786	C17 9043 T STAT	EA	24	36.36
30787	C12 9024 T STAT	EA	24	26.45
30788	E15 1501 DE ICER	EA	25	48.94
30789	E15 2501 DE ICER	EA	25	46.82
30790	RANCO SERVICE APPL BOOK	EA	73	3.04
30802	K/505 CONTROL	EA	24	18.32
30803	K/601 CONTROL	EA	24	17.48
30804	K/603 CONTROL	EA	24	18.70
30805	K0401 CONTROL	EA	24	21.58
30810	K/501 CONTROL	EA	24	17.18
30811	K/502 CONTROL	EA	24	18.32
30812	K/503 CONTROL	EA	24	18.32
30813	K/504 CONTROL	EA	24	18.32
30814	K 506 CONTROL	EA	24	18.32
30815	K/511 CONTROL	EA	24	18.32
30816	K/605 CONTROL	EA	24	18.70
30817	K/607 CONTROL	EA	24	18.70
30818	K/608 CONTROL	EA	24	18.70
30819	K/610 CONTROL	EA	24	18.70
30820	K/403 CONTROL	EA	24	21.58
30821	K/404 CONTROL	EA	24	21.58
30822	K 405 CONTROL	EA	24	21.58
30823	K 406 CONTROL	EA	24	21.58
30824	K 407 CONTROL	EA	24	21.58
30825	K 408 CONTROL	EA	24	21.58
30826	K 410 CONTROL	EA	24	21.58
30827	K/251 CONTROL	EA	24	22.02
30828	K/250 CONTROL	EA	24	22.02
30829	K/252 CONTROL	EA	24	19.08
30900	A30/323 REF	EA	23	18.70
30901	A30/2209 REF	EA	23	18.62
30902	A30/2210 REF	EA	23	18.62
30903	A30/2211 REF	EA	23	18.62
30904	A22/4506 CONTROL	EA	23	20.37
30905	A22/1129 CONTROL	EA	23	24.78
30906	A22/1112 CONTROL	EA	25	19.08
30907	A22/391 CONTROL	EA	25	26.37
30908	A22/392 CONTROL	EA	25	26.37
30909	A30/310 CONTROL	EA	23	17.25
30910	A30/311 CONTROL	EA	23	17.25
30911	A30/312 CONTROL	EA	23	18.32
30912	A30/313 CONTROL	EA	23	17.25
30913	P30/3701 CONTROL	EA	26	74.81
30914	P30/3601 CONTROL	EA	26	74.81
30915	P30/5826 CONTROL	EA	26	67.41
31910	21112 RELAY HOT W	EA	16	8.85
31911	21114 RELAY HOT W	EA	16	8.85
31912	21116 RELAY HOT W	EA	16	8.85
31913	21118 RELAY HOT W	EA	16	7.65
31914	21120 RELAY HOT W	EA	16	7.43
31915	21122 RELAY HOT W	EA	16	7.43
31916	21124 RELAY HOT W	EA	16	7.43
31918	21128 RELAY HOT W	EA	16	6.69
32120	A14821 3/4 OD VLV	EA	45	45.34
32121	A14822 7/8 OD VLV	EA	45	45.34
32122	A14823 1 1/8 OD VALVE	EA	45	81.55
32125	A15250 7/8 OD VLV	EA	45	62.27
32126	A15251 1 1/8 OD VALVE	EA	45	85.16
32127	A15252 1 3/8 OD VALVE	EA	45	114.45
32128	A15253 1 5/8OD VALVE	EA	45	141.75
32129	A15254 2 1/8 OD VALVE	EA	45	209.91
32130	A15255 2 5/8 OD VALVE	EA	45	306.91
32135	A3382 SAND CLOTH	EA	54	3.48
32136	A3343 25YD ROLL	EA	54	8.00
32137	A1464 50YD ROLL	EA	54	16.36
32139	A1210 CLEANINGPAD	EA	54	4.88
32140	A14833 1/4SAE VLV	EA	45	13.40
32141	A14835 3/8SAE VLV	EA	45	13.40
32142	A14836 1/2SAE VLV	EA	45	16.71
32143	A14837 5/8SAE VLV	EA	45	18.03
32148	A14848 1/4 OD VLV	EA	45	14.87
32149	A14850 3/8 OD VLV	EA	45	14.87
32150	A14851 1/2 OD VLV	EA	45	18.47
32151	A14852 5/8 OD VLV	EA	45	19.73
32152	A15525 ANGLE VALV	EA	45	15.01
32153	A15526 ANGLE VALV	EA	45	15.01
32154	A15527 ANGLE VALV	EA	45	15.01
32156	A15529 ANGLE VALV	EA	45	18.69
32158	A15531 ANGLE VALV	EA	45	18.69
32190	RC1125 RATCH-CUT TUBING CUTTER	EA	75	29.99
32600	14 UNIV ELEC MTR	EA	59	17.60
32601	18 UNIVERSAL ELEC.MOTOR	EA	59	18.96
32602	26 UNIV ELEC MTR	EA	59	20.04
32603	28 UNIV ELEC MTR	EA	59	21.93
32604	30 UNIV ELEC MTR	EA	59	22.49
32605	32 UNIV ELEC MTR	EA	59	18.81
32608	24 UNIV ELEC MTR	EA	58	24.96
32610	15 UNIV ELEC MTR	EA	59	17.60
32611	19 UNIV ELEC MTR	EA	59	18.96
32612	27 UNIV ELEC MTR	EA	59	20.04
32613	29 UNIV ELEC MTR	EA	59	21.93
32614	31 UNIV ELEC MTR	EA	59	22.49
32615	33 UNIV ELEC MTR	EA	59	18.81
32618	25 UNIV ELEC MTR	EA	58	24.96
32620	38 UNIV ELEC MTR	EA	59	31.11
32621	40 UNIV ELEC MTR	EA	59	32.72
32622	44 UNIV ELEC MTR	EA	59	38.37
32623	46 UNIV ELEC MTR	EA	59	48.08
32624	48 UNIV ELEC MTR	EA	59	42.29
32625	50 UNIV ELEC MTR	EA	59	49.64
32626	52 UNIV ELEC MTR	EA	59	46.62
32627	53 UNIV ELEC MTR	EA	59	51.23
32628	54 UNIV ELEC MTR	EA	59	47.70
32629	55 UNIV ELEC MTR	EA	59	51.90
32636	322 UNIV ELEC MTR	EA	59	45.14
32637	363 UNIV ELEC MTR	EA	59	64.16
32640	42 UNIV ELEC MTR	EA	59	31.86
32641	16 UNIV ELEC MTR	EA	57	18.81
32642	20 UNIV ELEC MTR	EA	57	18.69
32650	43 UNIV ELEC MTR	EA	59	31.86
32659	85 UNIV ELEC MTR	EA	59	53.00
32670	309 1/10 HP 230V MOTOR	EA	59	56.79
32710	433 UNIV ELEC MTR	EA	59	91.94
32715	390 UNIV ELEC MTR	EA	60	63.83
32716	391 UNIV ELEC MOTOR	EA	60	66.29
32718	447 UNIV ELEC MTR	EA	57	42.78
32719	158 UNIV ELEC MTR	EA	60	111.30
32720	435 UNIV ELEC MTR	EA	60	103.56
32721	118 UNIV ELEC MTR	EA	59	78.89
32724	1231 UNIV ELEC	EA	62	1.06
32725	1302 UNIV ELEC	EA	62	1.02
32726	1306 UNIV ELEC	EA	62	1.10
32727	1307 UNIV ELEC	EA	62	.90
32730	458 UNIV BLOWER	EA	61	40.56
32731	MOTOR 265CFM 115V	EA	61	42.96
32732	460 UNIV BLOWER	EA	61	56.51
32734	408 UNIV MTR	EA	59	53.69
32737	393 UNIV MTR	EA	60	57.18
32738	176 UNIV MTR	EA	60	63.35
32739	175 UNIV MTR	EA	60	69.06
32740	187 UNIV MTR	EA	60	75.75
32742	160 UNIVERSAL ELECTRIC MOTOR	EA	60	78.84
32744	1411 UNIV RAIN COVER	EA	62	3.27
32751	308 UNIV ELEC MTR	EA	59	20.04
32754	116 UNIV ELEC MTR	EA	60	63.65
32755	374 UNIV ELEC MTR	EA	59	88.16
32756	371 UNIV ELEC MTR	EA	59	90.63
32757	UNIVER ELECT # 1187 BLW WHEEL	EA	59	8.57
32758	UNIV BLWR WHL #1187 CW	EA	59	8.57
32760	12 UNIV ELEC BLWR	EA	61	28.76
32761	90 CFM BLOWER MOTOR 115V	EA	61	64.95
32765	91 UNIV ELEC MTR	EA	59	39.68
32766	89 UNIV ELEC MTR	EA	60	57.77
32767	77 UNIV ELEC MTR	EA	57	39.27
32768	78 UNIV ELEC MTR	EA	59	71.75
32777	81 UNIV ELEC MTR	EA	59	31.11
32779	98 UNIV ELEC MTR	EA	60	57.12
32784	307 UNIV ELEC MTR	EA	57	21.26
32785	314 UNIV ELEC MTR	EA	57	30.96
32787	326 UNIV ELEC MTR	EA	60	48.93
32791	93 UNIV ELEC MTR	EA	60	57.77
32792	320 UNIV ELEC MTR	EA	60	58.89
32796	113 UNIV ELEC MTR	EA	59	83.60
32797	101 UNIV ELEC MTR	EA	59	86.87
32798	102 UNIV ELEC MTR	EA	59	88.34
32799	362 UNIV ELEC MTR	EA	60	69.87
32802	MOTOR BASE	EA	62	8.46
32804	MOTOR BASE	EA	62	5.58
32808	MOTOR BASE	EA	62	5.57
32809	CLIP	EA	62	1.77
32810	2 1/20D RBR RING	EA	62	1.37
32812	1177A BRACKET W/ WSHERS GROM	EA	62	2.94
32816	2 1/40D RBR RING	EA	62	1.34
32817	2 1/20D RBR RING	EA	62	1.37
32818	MOTOR LGTH EXTENDER	EA	62	2.04
32819	CAP MTG BRKT	EA	62	3.24
32821	VAR SPEED CONTRLOL	EA	98	11.55
32822	KBWC 15K CONTROL	EA	98	10.49
32827	1293 UNIV ELEC	EA	62	5.49
32834	LUG MTG ADAPT	EA	62	6.54
32835	GROMMET SMALL	EA	62	.41
32836	GROMMET LARGE	EA	62	1.34
32844	342 UNIV ELEC MTR	EA	57	39.03
32845	96 UNIV ELEC MTR	EA	60	40.10
32846	332 UNIV ELEC MTR	EA	59	58.43
32847	347 UNIV ELEC MTR	EA	60	57.69
32851	351 UNIV ELEC MTR	EA	59	38.57
32852	345 UNIV ELEC MTR	EA	60	47.43
32855	346 UNIV ELEC MTR	EA	60	48.42
32858	107 UNIV ELEC MTR	EA	59	97.67
32865	476 ELEC MOTOR	EA	60	111.24
32871	11 UNIV ELEC MTR	EA	57	22.41
32872	324 UNIV ELEC MTR	EA	57	31.52
32874	377 UNIVERSAL ELECTRIC MOTOR	EA	57	32.30
32875	359 UNIVERSAL ELECTRIC MOTOR	EA	57	30.77
32876	323 UNIV ELEC MTR	EA	60	52.77
32879	150 UNIV MOTOR	EA	60	107.94
32884	389 UNIV ELEC MTR	EA	60	57.18
32885	372 UNIV ELEC MTR	EA	60	81.00
32887	381 UNIV ELEC MTR	EA	60	71.93
32889	152 UNIV ELEC MTR	EA	60	83.82
32890	VAR SPEED CONTROL	EA	98	21.98
32892	RAIN SHIELD	EA	60	2.45
32893	HUB ADPT	EA	60	9.50
32894	ADAPT PLATE	EA	60	3.86
35903	KIT K30-4 ROTOLOCK SPUD ADPT	EA	12	7.31
35904	KIT K30-1 ROTOLOCK SPUD ADPT	EA	12	7.31
35906	PTC START KIT FOR RUN CAP	EA	12	8.03
35907	START KIT FOR RSIR COMP	EA	13	4.80
35908	KIT K30-6 ROTOLOCK SPUD ADPT	EA	12	12.57
35909	KIT K30-8 ROTOLOCK SPUD ADPT	EA	12	7.31

PART	DESCRIPTION	UOM	PAGE	PRICE
36170	TECUMSEH HERM SRVC DATA BOOK	EA	13	1.55
36255	ADAPT KIT K20 1	EA	12	12.57
36260	70068 GROMMET	EA	12	.16
36261	70068 1 GROMMET	EA	12	.18
36262	70069 1 SLEEVE	EA	12	.06
36263	70456 1 GROMMET	EA	12	.20
36265	70153 1 GROMMET	EA	12	.12
36266	70153 2 GROMMET	EA	12	.20
36267	54001 2 SPRING	EA	12	.74
36269	3910 1 FIBER WSHR	EA	12	.14
36695	KIT K20-3 BASE ADAPTER	EA	12	12.57
36696	KIT K26-2 BASE ADAPTER	EA	12	5.03
36783	KIT K22-1 BASE ADAPTER	EA	12	15.92
36799	KIT K21-1 BASE ADAPTER	EA	12	5.74
36916	5/8 SUCT ACCUM	EA	12	15.99
36917	3/4 SUCT ACCUM	EA	12	17.81
36918	TA1207 51064-3Y SUCT ACCUM	EA	12	22.69
36919	7/8 SUCT ACCUM	EA	12	26.46
36920	7/8 SUCT ACCUM	EA	12	28.91
36922	7/8 SUCT ACCUM	EA	12	46.34
36923	1 1/8 SUCT ACCUM	EA	12	55.20
36924	1 3/8 SUCT ACCUM	EA	12	62.06
36957	COMP AUTO A/C	EA	2	115.25
36963	CG 99216-2 COMP&FLYWHEEL	EA	8	159.52
36964	CJ 99182-14 &25536-1 COMP/FLYW	EA	8	586.97
37074	4 YR EXT WARRANTY 1/8-1/5 HP	EA	1	13.00
37075	4 YR EXT WARRANTY 1/4-1/3 HP	EA	1	16.00
37076	4 YR EXT WARRANTY 1/2-3/4 HP	EA	1	29.50
37077	4 YR EXT WARRANTY 1-1 1/4 HP	EA	1	39.00
37078	4 YR EXT WARRANTY 2-2 1/2 HP	EA	1	47.00
37080	4 YR EXT WARRANTY 3 HP	EA	1	64.00
37081	4 YR EXT WARRANTY 3 1/2-5 HP	EA	1	81.00
37082	4 YR EXT WARRANTY 5 1/2-6 HP	EA	1	90.00
37083	4 YR EXT WARRANTY 7 1/2-9 HP	EA	1	165.00
37084	4 YR EXT WARRANTY 10-12 HP	EA	1	180.00
38025	THERM KIT FOR HTG EQUIP	EA	23	34.80
38030	UHC-110F2 FAN SWITCH	EA	23	4.30
38031	UHC-120F2 FAN SWITCH	EA	23	4.30
38033	UHC-130F2 FAN SWITCH	EA	23	4.30
38034	UHC-140F2 FAN SWITCH	EA	23	4.30
38035	UHC-150F2 FAN SWITCH	EA	23	4.30
38036	UHC-160F2 FAN SWITCH	EA	23	4.30
38037	39112 FAN SWTH	EA	23	4.28
38039	39113 FAN SWTH	EA	23	4.28
38040	UHC-210F2 FAN SWITCH	EA	23	4.30
38041	UHC-250F2 FAN SWITCH	EA	23	4.30
38042	UHC-350F4 FAM SWITCH	EA	23	4.30
38044	TT-140L4 LIMIT SWITCH	EA	23	4.05
38045	LIMIT SWITCH	EA	23	4.05
38046	TT-160L4 LIMIT SWITCH	EA	23	4.05
38047	TT-170L4 LIMIT SWITCH	EA	23	4.05
38049	TT-180L4 LIMIT SWITCH	EA	23	4.05
38050	TT-190L4 LIMIT SWITCH	EA	23	4.05
38051	TT-200L4 LIMIT SWITCH	EA	23	4.05
38052	TT-210L4 LIMIT SWITCH	EA	23	4.05
38053	TT-220L4 LIMIT SWITCH	EA	23	4.05
38054	TT-230L4 LIMIT SWITCH	EA	23	4.05
38055	TT-240L4 LIMIT SWITCH	EA	23	4.05
38056	TT-250L4 LIMIT SWITCH	EA	23	4.05
38057	TT-300L4 LIMIT SWITCH	EA	23	4.05
38058	TT-325L4 LIMIT SWITCH	EA	23	4.05
38059	TT-400L7 LIMIT SWITCH	EA	23	11.90
38060	TT550L10 LIMIT SWITCH	EA	23	11.90
38062	39038 MNL RET LIMIT SWITCH	EA	23	4.77
38064	39040 MNL REST LIMIT SWITCH	EA	23	4.77
38065	39042 MNL REST LIMIT SWITCH	EA	23	4.77
38088	39062 4 EAR CUP FLANGE	EA	23	1.55
38090	39063 4 EAR FLAT FLANGE	EA	23	.57
38091	39066 OVAL FLAT FLANGE	EA	23	.57
38311	70711 GROMMET	EA	12	.22
38312	70459 SLEEVE	EA	12	.08
38313	70458 1 GROMMET	EA	12	.22
38314	70666 SLEEVE	EA	12	.06
38315	70496 GROMMET	EA	12	.22
38316	70650 1 GROMMET	EA	12	.56
38317	70465 SLEEVE	EA	12	.14
38318	70749 GROMMET AH	EA	12	.38
38500	27000 10 PAK RELAY KIT	EA	15	63.08
38501	27001 RELAY FOR COMP	EA	15	5.40
38502	27002 RELAY FOR COMP	EA	15	5.40
38503	27003 RELAY FOR COMP	EA	15	5.40
38504	27004 RELAY FOR COMP	EA	15	5.40
38505	27005 RELAY FOR COMP	EA	15	5.40
38506	27006 RELAY FOR COMP	EA	15	5.40
38507	27007 RELAY FOR COMP	EA	15	5.40
38508	27008 RELAY FOR COMP	EA	15	5.40
38509	27009 RELAY FOR COMP	EA	15	5.40
38510	27010 RELAY FOR COMP	EA	15	5.40
38511	27011 RELAY FOR COMP	EA	15	5.40
38512	27012 RELAY FOR COMP	EA	15	5.40
38518	19550 RELAY MR550	EA	14	17.78
38519	19551 RELAY MR551	EA	14	19.20
38525	CONV KIT OF PARTS	KIT	15	2.70
38540	DEFROST TIMER	EA	26	9.98
38541	34886 DEF TMR	EA	26	11.67
38542	34887 DEF TIMER	EA	26	11.67
38543	34888 DEFR TIMER	EA	26	11.45
38544	34889 DEFR TIMER	EA	26	10.68
38545	34890 DEF TMR	EA	26	11.67
38546	34891 DEF TMR	EA	26	11.67
38547	34892 DEFR TIMER	EA	26	11.67
38548	34893 DEFR TIMER	EA	26	11.67
38549	34894 DEFR TIMER	EA	26	11.67
38550	34895 DEFR TIMER	EA	26	11.67
38551	34896 DEF TIMER	EA	26	11.67
38552	34897 BRACKET KIT	EA	26	1.02
38560	19001 RELAY MAR 56 POTENTIAL	EA	15	114.98
38563	19002 RELAY MAR 63 POTENTIAL	EA	15	17.55
38564	19003 RELAY MAR64 POTENTIAL	EA	15	19.20
38565	19004 RELAY MAR65 POTENTIAL	EA	15	18.45
38566	19005 RELAY MAR66 POTENTIAL	EA	15	19.20
38567	19006 RELAY MAR67 POTENTIAL	EA	15	19.88
38568	19007 RELAY MAR68 POTENTIAL	EA	15	21.00
38569	19008 RELAY MAR69 POTENTIAL	EA	15	18.45
38570	19009 RELAY MAR70 POTENTIAL	EA	15	18.15
38571	19010 RELAY MAR71 POTENTIAL	EA	15	19.88
38620	TD 68 TIME DELAY ON MAKE	EA	16	11.59
38640	TT-45RL DEFROST THERMOSTAT	EA	16	4.77
38641	TT-50RL DEFROST THERMOSTAT	EA	16	4.77
38642	TT-55RL DEFROST THERMOSTAT	EA	16	4.77
38643	TT-60RL DEFROST THERMOSTAT	EA	16	4.77
38644	TTC-110 MOUNTING BRACKET	EA	16	.66
38645	TTC-111 MOUNTING BRACKET	EA	16	.66
38646	TTC-112 MOUNTING BRACKET	EA	16	.66
38670	MOTOR KIT FOR EVAP FAN	EA	57	11.27
38671	FAN CONTROL RELAY TRSFMR	EA	15	14.25
38672	SUPER-FIT SWITCH	EA	50	3.63
39100	RELAY P82003CRA67	EA	12	8.95
39101	DISC BY MFG NO SUB	EA	12	1.59
39102	RELAY P82957 (P82933)OR 39197	EA	12	13.45
39103	RELAY P82044-1	EA	9	14.84
39104	RELAY P82077-1	EA	12	14.83
39105	RELAY P82934 (CAN USE 39196)	EA	10	8.11
39106	RELAY P82935 (CAN USE 39119)	EA	12	8.11
39107	RELAY P82958 (P82936 OR 39135)	EA	12	12.96
39109	RELAY P82968/(P82787-MARS 68)	EA	12	15.25
39112	RELAY P82938 (CAN USE 39193)	EA	9	14.49
39113	RELAY P82939 (CAN USE 39199)	EA	9	14.49
39114	RELAY P82003CRA66	EA	12	8.66
39116	RELAY 82352	EA	12	5.01
39119	RELAY P82935 (CAN USE 39106)	EA	10	8.11
39121	RELAY P82472	EA	9	7.63
39122	RELAY P82473	EA	9	7.28
39125	DISC BY MFG	EA	12	7.92
39126	RELAY P82772-1 CAN USE 39161	EA	12	8.11
39127	RELAY P82481-1	EA	12	8.11
39129	RELAY P82484-1	EA	12	8.11
39131	RELAY 82488-1	EA	12	8.11
39133	RELAY 82494	EA	12	7.92
39135	RELAY P82958 (P82936 OR 39107)	EA	12	12.96
39136	RELAY P82498-1	EA	10	8.11
39145	DISC BY MFG	EA	12	4.66
39147	RELAY P82627	EA	9	4.66
39149	RELAY P82635	EA	12	4.66
39152	RELAY P82654	EA	9	4.66
39154	RELAY P82959 (P82937 OR 39110)	EA	10	13.45
39156	RELAY 82766-1	EA	10	7.92
39158	RELAY P82773 CAN USE 39162	EA	12	7.24
39159	RELAY 82770-1	EA	9	7.92
39161	RELAY P82772-1 CAN USE 39126	EA	10	8.11
39162	RELAY P82773 CAN USE 39158	EA	12	7.24
39163	82774-3 OVERLOAD	EA	12	7.92
39164	RELAY P82963 (82777-MARS 65)	EA	12	13.45
39165	RELAY P82965 (82778-MARS 65)	EA	9	13.72
39166	RELAY P82969 (82779-MARS 69)	EA	12	14.34
39167	RELAY P82960 (82780) OR 39208	EA	12	13.72
39168	RELAY P82966(82781-MARS 66/71)	EA	9	15.03
39169	RELAY P82961 (82782)	EA	9	13.72
39170	RELAY P82964 (82783- MARS 64)	EA	9	16.17
39171	RELAY P82970 (82784 - MARS 70)	EA	12	13.72
39172	RELAY P82967 (82785- MARS 67)	EA	12	16.17
39173	RELAY P82962 (82786)	EA	12	13.72
39174	RELAY P82968 (82787-MARS 68)	EA	12	16.17
39186	RELAY P82924 (CAN USE 39145)	EA	9	4.66
39187	RELAY P82925	EA	9	4.66
39188	RELAY P82926	EA	12	4.66
39189	RELAY P82927	EA	9	4.66
39190	RELAY P82928	EA	9	4.66
39191	RELAY P82929	EA	12	4.66
39192	RELAY P82930	EA	9	4.66
39193	DISC BY MFG NO SUB	EA	12	1.59
39195	DISC NY MFG NO SUB	EA	12	1.59
39196	RELAY P82934 (CAN USE 39105)	EA	12	8.11
39197	RELAY P82957 (P82933)OR 39102	EA	12	13.45
39198	RELAY P82969 (82779 -MARS 69)	EA	12	14.34
39199	RELAY P82939 (CAN USE 39113)	EA	12	14.49
39201	PAK 101 ADAPT PARTS	EA	13	1.99
39202	PAK 102 ADAPT PARTS	EA	13	1.99
39203	PAK 103 ADAPT PARTS	EA	13	1.99
39204	PAK 104 ADAPT PARTS	EA	13	1.59
39205	KIT T-110 TERMINALS	EA	13	.64
39206	KIT T-111 TERMINALS	EA	13	.48
39207	KIT T-112 TERMINALS	EA	13	.48
39208	RELAY P82960 (82780) OR 39167	EA	12	13.72
39301	OVERLOAD P83019	EA	12	5.33
39302	OVERLOAD CAN USE 39500	EA	12	4.09
39303	OVERLOAD P83025	EA	12	4.99
39304	OVERLOAD P83530 (CAN USE 39578	EA	12	3.67
39305	DISC BY MFG	EA	12	5.01
39307	DISC BY MFG NO SUB	EA	12	1.59
39308	OVERLOAD P83532	EA	9	3.71
39309	83056 OVERLOAD	EA	12	5.06
39311	OVERLOAD P83059	EA	12	3.75
39312	OVERLOAD P83533 (CAN USE 39524	EA	9	4.68
39313	DISC BY MFG	EA	12	3.80
39316	P83091		12	3.70
39318	OVERLOAD P83107	EA	12	5.61
39320	OOVERLOAD P83128	EA	12	5.33
39328	OVERLOAD P83154	EA	12	3.67
39335	OVERLOAD P83203	EA	12	5.06
39339	DISC BY MFG NO SUB	EA	12	1.59
39342	83236 OVERLOAD	EA	12	41.12
39345	OVERLOAD P83247	EA	12	5.06
39348	OVERLOAD P83263	EA	10	5.68
39352	DISC BY MFG NU SUB	EA	12	1.59
39354	OVERLOAD P83276	EA	12	22.42
39357	OVERLOAD P83296	EA	12	5.06
39358	OVERLOAD P83297	EA	12	5.06
39360	83306 OVERLOAD	EA	12	22.42
39362	DISC BY MFG	EA	12	22.42

PART	DESCRIPTION	UOM	PAGE	PRICE
39366	OVERLOAD P83330	EA	12	27.19
39367	83331 OVERLOAD	EA	12	27.19
39368	OVERLOAD P83333 (CAN USE 39555	EA	12	4.10
39374	83345 OVERLOAD	EA	12	23.55
39376	83347 OVERLOAD	EA	12	23.55
39379	OVERLOAD P83357	EA	12	4.96
39382	OVERLOAD P83362	EA	12	4.96
39388	OVERLOAD 83374	EA	12	5.06
39390	DISC BY MFG NO SUB	EA	12	1.59
39391	83380 OVERLOAD	EA	12	5.06
39393	OVERLOAD 83386	EA	12	3.75
39395	DISC BY MFG NO SUB	EA	12	1.59
39397	83394 OVERLOAD	EA	12	27.19
39398	OVERLOAD P83395	EA	12	5.06
39400	83401 OVERLOAD	EA	12	22.42
39403	83410 OVERLOAD	EA	12	41.12
39409	OVERLOAD P83435	EA	12	3.75
39412	OVERLOAD P83458	EA	9	3.71
39415	DISC BY MFG NO SUB	EA	12	1.59
39420	OVERLOAD P83480 (CAN USE 39475	EA	9	3.71
39422	83487 OVERLOAD	EA	12	22.42
39423	OVERLOAD P83488	EA	12	19.88
39424	OVERLOAD P83489	EA	12	18.92
39425	OVERLOAD P83490	EA	12	19.88
39426	OVERLOAD P83491	EA	12	18.92
39427	OVERLOAD P83492	EA	12	18.92
39428	OVERLOAD P83493	EA	12	18.92
39429	OVERLOAD P83494	EA	12	18.92
39430	OVERLOAD P83503 (CAN USE 39511	EA	12	5.04
39431	OVERLOAD P83504	EA	9	4.71
39432	OVERLOAD P83505	EA	9	5.06
39433	OVERLOAD P83506 (CAN USE 39549	EA	12	5.01
39434	OVERLOAD P83507	EA	10	5.01
39435	OVERLOAD P83508	EA	12	5.01
39436	OVERLOAD P83509 (CAN USE 39598	EA	9	4.72
39437	OVERLOAD P83510	EA	12	3.75
39438	OVERLOAD P83511	EA	12	4.42
39439	OVERLOAD P83512	EA	10	4.09
39440	OVERLOAD P83513	EA	12	4.06
39441	OVERLOAD P83514	EA	12	4.09
39442	OVERLOAD P83515 (CAN USE 39573	EA	10	4.09
39443	OVERLOAD P83516 (CAN USE 39528	EA	12	3.72
39444	OVERLOAD P83517	EA	10	4.68
39445	DISC BY MFG	EA	12	4.09
39446	OVERLOAD P83519	EA	12	5.33
39447	OVERLOAD P83520	EA	12	4.99
39448	OVERLOAD P83521	EA	12	4.99
39449	OVERLOAD P83522	EA	10	5.76
39450	OVERLOAD P83523	EA	10	5.80
39451	OVERLOAD P83524	EA	12	5.49
39452	OVERLOAD P83525	EA	12	5.44
39453	OVERLOAD P83526	EA	12	5.37
39455	OVERLOAD P83528 (CAN USE 39545	EA	12	3.67
39460	OVERLOAD P83601	EA	9	3.75
39462	OVERLOAD P83605	EA	12	3.67
39465	OVERLOAD P83613	EA	9	3.75
39468	OVERLOAD 83633	EA	12	5.06
39471	OVERLOAD P83638	EA	12	19.88
39473	OVERLOAD P83643 (CAN USE 39487	EA	9	3.71
39478	83653 OVERLOAD	EA	12	22.42
39480	OVERLOAD P83656-1 OR TRY 39588	EA	10	5.39
39483	OVERLOAD P83669 (OR TRY 39541)	EA	12	3.67
39485	OVERLOAD P83672	EA	12	18.92
39487	OVERLOAD P83643 (CAN USE 39473	EA	12	3.71
39490	OVERLOAD P83684	EA	12	18.92
39495	OVERLOAD P83723	EA	12	22.42
39497	OVERLOAD P83725-1 OR TRY 39591	EA	9	4.10
39500	OVERLOAD P83529 (CAN USE 39302	EA	12	4.09
39502	OVERLOAD P83735-1 OR TRY 39552	EA	10	5.34
39503	OVERLOAD P83736	EA	12	4.39
39505	OVERLOAD P83739-1 OR TRY 39568	EA	9	4.10
39514	OVERLOAD P83940 (OR TRY 39313)	EA	9	3.80
39517	83776 OVERLOAD	EA	12	22.42
39522	OVERLOAD 83793	EA	12	3.69
39526	OVERLOAD P83797-1	EA	12	3.90
39528	OVERLOAD P83516 (CAN USE 39443	EA	12	3.72
39532	OVERLOAD P83918 (CAN USE 39594	EA	12	3.67
39535	OVERLOAD P83907-1 OR TRY 39559	EA	12	4.75
39537	OVERLOAD P83914	EA	9	3.75
39539	OVERLOAD P83918 (OR TRY 39532)	EA	10	3.67
39544	OVERLOAD P83529 (CAN USE 39302	EA	10	4.09
39545	OVERLOAD P83528 (CAN USE 39455	EA	9	3.67
39555	OVERLOAD P83333 (CAN USE 39368	EA	10	4.10
39557	OVERLOAD P83960	EA	10	4.96
39561	OVERLOAD P83503 (CAN USE 39430	EA	10	5.04
39564	OVERLOAD P83972	EA	12	3.67
39569	DISC BY MFG	EA	12	3.67
39571	OVERLOAD P83991-1 OR TRY 39587	EA	10	5.34
39573	OVERLOAD 83998	EA	12	3.85
39578	OVERLOAD P83530 (CAN USE 39304	EA	10	3.67
39582	OVERLOAD P83531 (CAN USE 39306	EA	10	3.67
39585	OVCERLOAD P83907-1 OR TRY 3953	EA	10	4.75
39586	OVERLOAD P83527 (CAN USE 39454	EA	10	4.96
39592	8300MRTA58 O/L	EA	10	3.75
39593	8300MRTA60 O/L	EA	12	3.75
39594	OVERLOAD P83918 (OR TRY 39532)	EA	12	3.86
39603	35W 115V MOTOR	EA	58	39.18
39604	35W 230V MOTOR	EA	58	40.10
39801	BASE FOR AE-AK COMP	EA	2	4.07
39802	BASE FOR AE-AK COMP	EA	2	4.07
39803	BASE FOR AE-AK COMP	EA	2	4.07
39804	BASE FOR AE-AK COMP	EA	2	4.07
39805	BASE FOR AE-AK COMP	EA	2	4.07
39806	BASE FOR AE-AK COMP	EA	2	4.07
39807	MTG SPRING FOR AE-AK COMP	EA	2	.60
39808	KIT K35-1 BASE ADAPTER	EA	12	3.60
39809	KIT K35-2 BASE ADAPTER	EA	12	5.39
3L180	HACO V BELT	EA	63	1.68
3L190	HACO V BELT	EA	63	1.68
3L200	HACO V BELT	EA	63	1.68

PART	DESCRIPTION	UOM	PAGE	PRICE
3L210	HACO V BELT	EA	63	1.68
3L220	HACO V BELT	EA	63	1.68
3L230	HACO V BELT	EA	63	1.68
3L240	HACO V BELT	EA	63	1.68
3L250	HACO V BELT	EA	63	1.68
3L260	HACO V BELT	EA	63	1.71
3L270	HACO V BELT	EA	63	1.74
3L280	HACO V BELT	EA	63	1.77
3L290	HACO V BELT	EA	63	1.80
3L300	HACO V BELT	EA	63	1.82
3L310	HACO V BELT	EA	63	1.84
3L320	HACO V BELT	EA	63	1.87
3L330	HACO V BELT	EA	63	1.89
3L340	HACO V BELT	EA	63	1.92
3L350	HACO V BELT	EA	63	1.97
3L360	HACO V BELT	EA	63	2.00
3L370	HACO V BELT	EA	63	2.04
3L380	HACO V BELT	EA	63	2.08
3L390	HACO V BELT	EA	63	2.12
3L400	HACO V BELT	EA	63	2.17
3L410	HACO V BELT	EA	63	2.21
3L420	HACO V BELT	EA	63	2.24
3L430	HACO V BELT	EA	63	2.27
3L440	HACO V BELT	EA	63	2.29
3L450	HACO V BELT	EA	63	2.34
3L470	HACO V BELT	EA	63	2.41
3L480	HACO V BELT	EA	63	2.44
3L540	HACO V BELT	EA	63	2.61
3L600	HACO V BELT	EA	63	2.78
41915	TRANSFORMER 120V TO 24V	EA	100	8.10
41916	TRANSFORMER 208/240V TO 24V	EA	100	8.21
41917	TRANSFORMER 120/208/240 TO 24V	EA	100	8.80
42770	SHAFT ADAPT FR THRD TO 1/4OD	EA	62	1.91
43400	UE9 ALAN IND BRKT	EA	62	2.64
44230	RUBBER MTG RING 2 1/4OD 5/16W	EA	62	1.81
44231	RUBBER MTG RING 2 1/2OD 5/16W	EA	62	1.81
44232	RUBBER MTG RING 2 1/2OD 7/16W	EA	62	1.81
44336	MOTOR MTG BRACKET 2PC 6 3/16H	PR	62	5.72
44337	MOTOR MTG BRACKET 2PC 7"H	PR	62	5.72
44348	MOTOR SHAFT ADPT 1/2"TO5/8"OD	EA	62	1.29
44349	MOTOR SHAFT ADPT 5/8"TO3/4"OD	EA	62	1.29
44577	MOTOR BASE W/CLAMPS 5" CENTERS	EA	62	4.19
44578	MOTR BASE W/CLMPS 5 1/4 CENTRS	EA	62	4.19
44579	MOTR BASE W/CLAMPS 5 1/2 CENTR	EA	62	4.19
44595	MOTR BASE 4 3/16" CENTERS	EA	58	6.38
44596	MOTR BASE 4 1/2" CENTERS	EA	58	6.38
44597	MOTR BASE 4 11/16" CENTERS	EA	58	6.38
44598	MOTR BASE 4 15/16" CENTERS	EA	58	6.38
44599	MOTR BASE 5 7/16" CENTERS	EA	58	6.38
44618	5XBG036 GE MOTOR 1/4HP 115V	EA	57	54.38
44619	5KH3U0462T GE MOTOR 1/3HP 115V	EA	57	62.01
44620	5XBL000 GE MOTOR 1/2HP 115V	EA	57	86.81
44621	5KH38RN68X GE MOTOR 3/4HP 115V	EA	57	112.57
44622	5XBF004 GE MOTOR 1/6HP 115V	EA	57	49.61
44623	5XBG015 GE MOTOR 1/4HP 115V	EA	57	53.42
44624	5XBH006 GE MOTOR 1/3HP 115V	EA	57	62.01
44626	5XBG019 GE MOTOR 1/4HP 115V	EA	57	57.24
44627	5XBH017 GE MOTOR 1/3HP 230V	EA	57	65.83
44628	5XBL004 G E MOTOR	EA	57	90.63
44629	5KC35FN51X GE MTR 1/3HP115/230	EA	56	64.87
44655	5KC36JN267X GE MTR1/2HP115/230	EA	56	68.86
44656	5KC37NN82X GE MTR 1/2HP115/230	EA	56	89.69
44657	5KC38RN68X GE MTR 1HP 115/230V	EA	56	104.19
44661	5KC35NJ12X GE MTR 1/4HP 115V	EA	56	68.38
44662	5KC36LN3X GE MTR 1/3HP 115/230	EA	56	86.98
44663	5KC37NN3X GE MTR 1/2HP 115/230	EA	56	103.28
44664	5KC39UN1X GE MTR 3/4HP 115/230	EA	56	134.51
44671	5KN32GN8 GE MTR 14/HP 115V	EA	58	84.91
44672	5KC35MN43 GE MTR 1/3HP 115/230	EA	58	104.94
44673	5KC37RN24 GE MTR 1/2HP 115/230	EA	58	122.11
44674	5KC45RG1183 GE MTR 3/4HP115/23	EA	58	140.43
44675	5KC47RG723X GE MTR 1HP 115/230	EA	56	146.77
44703	5KC36JN268X GE MTR1/2HP115/230	EA	57	69.17
44704	5KC39NN50X GE MTR 3/4HP115/230	EA	57	81.57
44705	5KC39RN44X GE MTR1HP115/230V	EA	57	91.11
44706	5KC36JN269X GE MTR 12/HP115/23	EA	57	70.60
44710	5KC37NN16X GE MTR 1/2HP115/230	EA	56	108.76
44711	5KC39UN8T GE MTR 3/4HP 115/230	EA	56	134.51
44712	5XBY012 GE MTR 2SP 115V 1/4	EA	57	75.37
44713	5KH43MG152X GE MTR MTR2SPD115-1/3	EA	57	103.99
44724	5XBG001 GE MTR 1/4HP 115V	EA	57	51.52
44728	5XBH002 GE MTR 1/3HP 115V	EA	57	56.29
44730	KH3JBA021U GE MTR 1/8HP 115V	EA	58	45.79
44731	KH3KDA0211U GE MTR 1/6HP 115V	EA	58	49.61
44740	5869082AA1 BKT 1	EA	62	1.68
44741	MTG BRKT FOR UNIT BRG MTR 41/8	EA	62	2.13
44742	MTG BRKT FOR UNIT BRG MTR 53/8	EA	62	2.13
44743	FAN BLADE 2 BLADE 7 3/4OD	EA	63	1.68
44744	FAN BLADE 4 BLADE 7 3/4OD	EA	63	1.93
44745	FAN BLADE 4 BLADE 8 3/4OD	EA	63	2.13
44746	FAN BLADE 4 BLADE 10"OD	EA	63	2.64
44749	5KH3XQA0466T GE MTR1/2HP 115V	EA	57	70.60
44759	5KC45PG50X GEMTR2SP1/2H115/230	EA	56	150.73
44950	5KSP51AL611 GE MTR 2.5WATT 115	EA	58	16.31
45002	5KSP39DG2908T GE MTR 1/8HP 115	EA	58	44.64
45003	5KSP39FG2912T GE MTR 1/8HP 115	EA	58	46.50
45004	5KSP39FG2916T GE MTR 1/6HP 115	EA	58	47.43
45005	5KSP39HG2920T GE MTR 1/6HP115V	EA	58	49.29
45006	5KSP39KG2924T GE MTR 1/4HP115V	EA	58	51.62
45007	5KSP39MG2928T GE MTR 1/4HP115V	EA	58	54.87
45012	5KSP39DG2910T 1/8HP 208/230V	EA	58	45.57
45013	5KSP39FG2914T 1/8HP 208/230V	EA	58	47.90
45014	5KSP39FG2918T 1/6HP 208/230V	EA	58	48.36
45015	5KSP39HG2922T 1/6HP 208/230V	EA	58	50.22
45016	5KSP39KG2926T 1/4HP 208/230V	EA	58	52.55
45017	5KSP39MG2930T 1/4HP 208/230V	EA	58	55.80
45018	5KSP39DG2911T 1/8HP 208/230V	EA	58	46.04
45020	5KSP39DG4936T GE MTR 3 SPD	EA	56	63.24
45022	5KSP39HG4938T GE MTR 3SPD	EA	56	67.89
45023	5KSP39DG2654T GE MTR 3 SPD	EA	56	63.71

PART	DESCRIPTION	UOM	PAGE	PRICE
45025	5KSP39KG4934T GE MTR 3 SPD	EA	56	69.75
45029	5KCP39MG5830T GE MTR 3 SPD	EA	56	75.37
45030	GE MOTOR 3 SPD	EA	56	64.64
45031	GE MOTOR 3 SPD	EA	56	66.50
45032	GE MOTOR 3 SPD	EA	56	68.82
45033	GE MOTOR 3 SPD	EA	56	65.10
45034	GE MOTOR 3 SPD	EA	56	67.43
45035	GE MOTOR 3 SPD	EA	56	70.68
45039	GE MOTOR 3 SPD	EA	56	59.06
45041	GE MOTOR 3 SPD	EA	56	62.31
45042	GE MOTOR 3 SPD	EA	56	64.87
45043	GE MOTOR 3 SPD	EA	56	66.78
45044	GE MOTOR 3 SPD	EA	56	71.07
45046	GE MOTOR 3 SPD	EA	56	64.87
45047	GE MOTOR 3 SPD	EA	56	65.83
45048	GE MOTOR 3 SPD	EA	56	68.21
45049	GE MOTOR 3 SPD	EA	56	55.34
45050	GE MOTOR 1/15HP 115V	EA	58	54.41
45051	GE MOTOR 1/15HP 208/230V	EA	58	55.34
45052	GE MOTOR 1/15HP 115/208/230V	EA	58	71.61
45053	GE MOTOR 1/10HP 115V	EA	58	56.27
45054	GE MOTOR 1/10HP 208/230V	EA	58	57.20
45055	GE MOTOR 1/10HP 115V	EA	58	65.57
45056	GE MOTOR 1/10HP 115/208/230V	EA	58	66.96
45060	5KSP29DG3101T G E MOTOR	EA	58	54.41
45061	GE MOTOR 1/15HP 208/230V	EA	58	55.34
45063	GE MOTOR 1/10HP 115V	EA	58	56.27
45064	GE MOTOR 1/10HP 208/230V	EA	58	57.20
45066	GE MOTOR 1/10HP 115/208/230V	EA	58	66.96
45300	GE MOTOR 4W 115V	EA	58	14.95
45301	GE MOTOR 4W 115V	EA	58	15.86
45302	GE MOTOR 9W 115V	EA	58	17.21
45303	GE MOTOR 9W 230V	EA	58	18.12
45304	GE MOTOR 16W 115V	EA	58	21.29
45305	GE MOTOR 16W 230V	EA	58	22.65
45310	GE MOTOR 4W 115V	EA	58	14.85
45311	GE MOTOR 4W 230V	EA	58	15.86
45312	GE MOTOR 9W 115V	EA	58	17.10
45313	GE MOTOR 9W 230V	EA	58	17.99
45314	GE MOTOR 16W 115V	EA	58	21.29
45315	GE MOTOR 16W 230V	EA	58	22.65
45322	DISC BY MFG	EA	58	26.71
45328	GE MOTOR 2W 115V	EA	58	11.78
45366	MTG BRKT FOR UNIT BRG MTR49/16	EA	62	2.13
45367	OFSET BRK FOR UNIT BRG MTR53/8	EA	62	2.13
45368	MTG BRK FOR UNIT BRG MTR6 3/16	EA	62	3.61
45380	GE MOTOR 1/20HP 115V	EA	58	50.22
45381	GE MOTOR 1/20HP 208/230V	EA	58	51.15
45382	GE MOTOR 1/20HP 115V	EA	58	61.38
45390	GE MOTOR 1/20HP 115V	EA	58	50.22
45391	GE MOTOR 1/20HP 208/230V	EA	58	51.15
45449	GE TRANSFORMER 208V TO 230V	EA	100	75.39
45531	MAINT KIT FOR H-10 LEAK DET	EA	87	3.35
45532	ELEMENT FOR H-10 LEAK DET	EA	87	19.90
45533	REFERENCE LEAK FOR H-10 LEK DT	EA	87	6.89
45534	REFILL FOR 45533	EA	87	5.27
45535	PROBE TIP FOR H-10 LEAK DET	EA	87	5.35
45764	TRANSFORMER 50V/AMP	EA	100	38.46
45765	TRANSFORMER 100V/AMP	EA	100	45.97
45766	TRANSFORMER 250V/AMP	EA	100	66.01
45767	TRANSFORMER 500V/AMP	EA	100	91.30
45768	TRANSFORMER 750V/AMP	EA	100	117.97
45769	TRANSFORMER 1000V/AMP	EA	100	147.06
45770	TRANSFORMER 2000V/AMP	EA	100	219.78
45771	TRANSFORMER 3000V/AMP	EA	100	271.49
45904	GE MOTOR 1/4HP 115V	EA	58	53.42
45905	GE MOTOR 1/3HP 115V	EA	58	59.15
45906	GE MOTOR 1/3HP 115V	EA	58	57.72
45907	GE MOTOR 3/4HP 208/230V	EA	56	96.35
45912	GE MOTOR 1/6HP 208/230V	EA	58	51.04
45913	GE MOTOR 1/4HP 208/230V	EA	58	54.38
45914	GE MOTOR 1/4HP 208/230V	EA	58	54.38
45915	GE MOTOR 1/3HP 208/230V	EA	58	60.10
45916	GE MOTOR 1/3HP 208/230V	EA	58	58.67
45917	GE MOTOR 1/6HP 208/23V	EA	58	51.04
45918	GE MOTOR 1/4HP 208/23V	EA	58	54.38
45919	GE MOTOR 1/3HP 208/23V	EA	58	58.67
45920	GE MOTOR 1/10HP 115V 3SPD	EA	58	47.90
45921	GE MOTOR 1/8HP 115V 3 SPD	EA	58	49.29
45922	GE MOTOR 1/5HP 115V 3 SPD	EA	58	52.08
45923	GE MOTOR 1/4HP 115V	EA	58	58.13
45924	GE MOTOR 1/2HP 115V	EA	56	83.00
45925	GE MOTOR 1/2HP 208/230V	EA	56	65.57
45930	GE MOTOR 1/6HP 115V	EA	56	72.50
45932	GE MOTOR 1/4HP 115V	EA	56	74.89
45933	GE MOTOR 1/3HP 115V	EA	56	77.75
45934	GE MOTOR 1/2HP 115V	EA	56	82.52
45937	GE MOTOR 1/6HP 208/230V	EA	56	73.46
45938	GE MOTOR 1/5HP 208/230V	EA	56	74.89
45939	GE MOTOR 1/4HP 208/230V	EA	56	76.32
45940	GE MOTOR 1/3HP 208/230V	EA	56	75.37
45941	GE MOTOR 1/2HP 208/230V	EA	56	79.66
45963	GE MOTOR 1/3HP 115V	EA	58	60.58
45964	GE MOTOR 1/2HP 115V	EA	58	68.69
45965	GE MOTOR 1/4HP 115V	EA	58	56.76
45982	GE MOTOR 1/4HP 115V 3 SPD	EA	58	46.97
45983	GE MOTOR 1/3HP 115V 3 SPD	EA	58	49.76
45984	GE MOTOR 1/2HP 115V 3SPD	EA	58	55.80
45985	GE MOTOR 1/4HP 208/230V 3 SPD	EA	58	47.90
45986	GE MOTOR 1/3HP 208/230V 3 SPD	EA	58	48.68
45987	GE MOTOR 1/2HP 208/230V 3 SPD	EA	58	56.73
45988	GE MOTOR 1/6HP 208/230V 2 SPD	EA	56	53.01
45989	GE MOTOR 1/4HP 208/230V 2 SPD	EA	56	46.04
45990	GE MOTOR 1/3HP 208/230V 2 SPD	EA	56	48.36
45991	GE MOTOR 1/2HP 208/230V 2 SPD	EA	56	54.41
45992	GE MOTOR 1/3HP 208/230V 2 SPD	EA	56	75.36
45993	GE MOTOR 1/2HP 208/230V	EA	56	83.00
45994	GE MOTOR 1/3HP 208/230V	EA	56	95.88
45995	GE MOTOR 1/2HP 208/230V	EA	56	115.43
45996	GE MOTOR 1/6HP 208/230V	EA	56	75.84

PART	DESCRIPTION	UOM	PAGE	PRICE
45997	GE MOTOR 1/4HP 208/230V	EA	56	85.86
45998	GE MOTOR 1/3HP 115V	EA	56	94.92
46000	GE MOTOR 1/40HP 115V	EA	58	45.32
46001	GE MOTOR 1/30HP 115V	EA	58	49.13
46002	GE MOTOR 1/20HP 115V	EA	58	56.76
46004	GE MOTOR 1/30HP 208/230V	EA	58	50.09
46009	GE MOTOR 1/20HP 115V	EA	58	55.81
46010	GE MOTOR 1/40HP 115V	EA	58	45.32
46011	GE MOTOR 1/30HP 115V	EA	58	49.13
46013	GE MOTOR 1/40HP 208/230V	EA	58	46.27
46014	GE MOTOR 1/30HP 208/230V	EA	58	50.09
46015	GE MOTOR 1/20HP 208/230V	EA	58	64.87
46019	GE MOTOR 1/20HP 115V	EA	58	55.81
46020	GE MOTOR 1/15HP 115V 4SP 3/8SH	EA	56	46.27
46021	GE MOTOR 1/15HP 115V 4SP 1/2SH	EA	56	51.04
46024	GE MOTOR 1/10HP 115V 5SPD	EA	56	53.42
46025	GE MOTOR 1/8HP 115V 5 SPD	EA	56	51.04
46027	GE MOTOR 1/15HP 230V 3SP 1/2SH	EA	56	46.27
46028	GE MOTR 1/15HP 230V 4SP 3/8SHF	EA	56	51.04
46029	GE MOTR 1/15HP 230V 4SP 1/2SHF	EA	56	51.99
46030	GE MOTR 1/15HP 115V 3SP 3/8SHF	EA	56	46.75
46031	GE MOTR 1/12HP 115V 3SP 1/2SHF	EA	56	47.70
46032	GE MOTR 1/12HP 115V 3SP 3/8SHF	EA	56	47.70
46033	GE MOTR 1/8HP 115V 3 SPD	EA	56	51.04
46035	GE MOTOR 1/12HP 230V 3 SPD	EA	56	49.13
46044	GE MOTOR 1/20HP 208/230V	EA	58	56.76
46053	GE MOTOR 1/30HP 208/230V	EA	58	62.96
46054	GE MOTOR 1/20HP 208/230V	EA	58	56.76
46069	GE MOTOR 1/2HP 208/230V	EA	58	66.78
46070	GE MOTOR 3/4HP 208/230V 2 SPD	EA	56	95.40
46072	GE MOTOR 3/4HP 208/230V 3 SPD	EA	58	76.73
46083	GE MOTOR 1/4HP 208/230V	EA	56	63.44
46084	GE MOTOR 1/3HP 208/230V	EA	56	67.26
46085	GE MOTOR 1/2HP 208/230V	EA	56	75.37
46094	GE MOTOR 1/4HP 115V	EA	57	110.66
46096	GE MOTOR 1/6HP 115V	EA	56	74.41
46097	GE MOTOR 1/4HP 115V	EA	56	78.23
46098	5KCP39NGC339T G E MOTOR	EA	56	77.40
46100	115V MTR KIT REPL FOR REFRIGTR	EA	57	10.47
46150	GE MOTOR 1/4HP 115V	EA	57	49.61
46151	GE MOTOR 1/4HP 115V	EA	57	51.52
46152	GE MOTOR 1/3HP 115V	EA	57	54.38
46153	GE MOTOR 1/3HP 115V	EA	57	60.10
46154	GE MOTOR 1/2HP 115V	EA	57	68.69
46155	GE MOTOR 1/2HP 115V	EA	57	77.27
46180	3383 5KCP39FGM421S G.E. MOTOR	EA	56	40.46
46181	3384 5KCP39FGM433S G.E. MOTOR	EA	56	41.39
46182	3385 5KCP39JGM439S G.E. MOTOR	EA	56	43.25
46183	3386 5KCP39JGM440S G.E. MOTOR	EA	56	44.18
46184	3387 5KCP39PGM438S G.E.MOTOR	EA	56	49.29
46185	3388 5KCP39NGM437S G.E. MOTOR	EA	56	50.22
46188	3989 5KCP39PGE413T G.E. MOTOR	EA	58	68.82
46189	2800 KH29GG4283T G.E. MOTOR	EA	58	54.41
46190	2801 KH29MG4617T G.E. MOTOR	EA	58	61.85
46410	GE MOTOR 1HP 3PH 230/460V	EA	58	124.97
46411	GE MOTOR 1 1/2HP 3PH 230/460V	EA	58	138.33
46412	GE MOTOR 2HP 3PH 230/460V	EA	58	150.73
46413	GE MOTOR 3HP 3PH 230/460V	EA	58	177.68
46414	GE MOTOR 5HP 3PH 230/460V	EA	58	200.85
46630	LEAK DETECTOR	EA	87	176.09
46640	240V LEAK DETECTOR	EA	87	179.30
46646	BATTERY LEAK DETECTOR	EA	88	143.87
48100	PSU2115/3534B1A0021A125 CAP	EA	14	1.31
48101	PSU3615/354B1A0036A125 CAP	EA	14	1.37
48102	PSU4315/3534B1A0043A125 CAP	EA	14	1.31
48103	PSU5315/3534B1A0053A125 CAP	EA	14	1.43
48104	PSU6415/354B1A0064A125 CAP	EA	14	1.37
48105	PSU7215/3534B1A0072A125B5	EA	14	1.46
48106	PSU8815/3543B1A0088A125C1	EA	14	1.50
48109	PSU12415/3534B1A0124A125C1	EA	14	1.60
48110	PSU13015/3534B1A0130A125B4	EA	14	1.62
48111	PSU14515/3534B1A0145A125C1	EA	14	1.65
48112	PSU16115/3534B1A0161A125C1	EA	14	1.76
48113	189-227MFD 110/125V CAPACITOR	EA	14	1.86
48114	200-240/110-125#2/2A0200A125B2	EA	14	1.83
48115	PSU21615.3534B2A0216A125B5	EA	14	1.98
48116	PSU23315A/3534B2A0233A125B3	EA	14	2.05
48117	PSU24315A/3534B2A0243A125A9	EA	14	2.12
48118	270-324MFD 110/125V CAPACITOR	EA	14	2.23
48119	324-389MFD 110/125V CAPACITOR	EA	14	2.54
48120	PSU34015/3534B4A0340A125B7	EA	14	2.63
48121	PSU37815/3534B4A0378A125B8	EA	14	2.82
48122	PSU40015/3534B4A0400A125C2	EA	14	2.85
48123	430-516MFD 110/125V CAPACITOR	EA	14	3.15
48124	460-552MFD 110/125V CAPACITOR	EA	14	3.34
48126	PSU54015B/3534B5A0540A125B6	EA	14	3.72
48128	590-708MFD 110/125V CAPACITOR	EA	14	8.02
48130	708-850MFD 110/125V CAPACITOR	EA	14	4.42
48132	829-995MFD 110/125V CAPACITOR	EA	14	4.89
48134	1000-1200MFD 110/125V CAPACITR	EA	14	6.13
48139	88-108MFD 165V CAPACITOR	EA	14	2.18
48140	DISC BY MFG NO SUB	EA	14	1.02
48142	145-175MFD 165V CAPACITR	EA	14	2.80
48143	161-193MFD 165V CAPACITOR	EA	14	2.87
48144	189-227MFD 165V CAPACITOR	EA	14	3.58
48146	233-280MFD 165V CAPACITOR	EA	14	4.00
48153	PSU2135 /3534B1A0021A250B1	EA	14	2.31
48154	PSU2535 /3534B1A0025A250	EA	14	2.38
48155	30-36MFD 220/250V CAPACITOR	EA	14	2.40
48156	36-43MFD 220/250V CAPACITOR	EA	14	2.44
48157	PSU4335B /3534B2A0043A250	EA	14	2.92
48158	PSU4735 /3534B2A0047A250	EA	14	2.91
48160	56-72/220-250#2 /B2A0053A250	EA	14	3.01
48161	64-77MFD 220/250V CAPACITOR	EA	14	3.10
48162	PSU7235 /3534B4A0072A250	EA	14	3.03
48163	88-108MFD 220/250V CAPACITOR	EA	14	3.38
48164	108-130MFD 220/250V CAPACITOR	EA	14	3.57
48165	PSU12435 /3534B5A0124A250	EA	14	3.62
48166	PSU13035 /3534B5A0130A250A2	EA	14	3.97
48167	145-175MFD 220/250V CAPACITOR	EA	14	4.18

PART	DESCRIPTION	UOM	PAGE	PRICE
48168	161-193MFD 220/250V CAPACITOR	EA	14	4.51
48169	189-227MFD 220/250V CAPACITOR	EA	14	5.01
48170	216-259MFD 220/250V CAPACITOR	EA	14	5.43
48171	233-280MFD 220/250V CAPACITOR	EA	14	5.74
48172	243-292MFD 220/250V CAPACITOR	EA	14	6.21
48173	280-333MFD 220/250V CAPACITOR	EA	14	6.40
48175	PSU2530 /3534B2A0025A330A9	EA	14	2.68
48176	30-36MFD 330V CAPACITOR	EA	14	2.84
48177	36-43MFD 330V CAPACITOR	EA	14	3.01
48178	43-53MFD 330V CAPACITOR	EA	14	3.06
48180	53-64MFD 330V CAPACITOR	EA	14	3.36
48181	64-77MFD 330V CAPACITOR	EA	14	3.58
48182	72-88MFD 330V CAPACITOR	EA	14	3.95
48183	88-108MFD 330V CAPACITOR	EA	14	4.33
48184	108-130MFD 330V CAPACITOR	EA	14	4.99
48185	124-149MFD 330V CAPACITOR	EA	14	10.74
48186	130-156MFD 330V CAPACITOR	EA	14	5.53
48187	145-175MFD 330V CAPACITOR	EA	14	6.40
48188	PSU16130/3534B8A0161A330B8	EA	14	6.77
48189	PSU18930/3534B8A018933OB9	EA	14	7.53
48190	PSU21630 /3534B8A0216A330B9	EA	14	8.09
48251	CNTRL SWTCHNG RELAY 24V 3PDT	EA	16	20.18
48301	POTENTIAL STARTING RELAY	EA	15	11.89
48302	POTENTIAL STARTING RELAY	EA	15	12.40
48303	POTENTIAL STARTING RELAY	EA	15	12.47
48304	POTENTIAL STARTING RELAY	EA	15	13.12
48305	POTENTIAL STARTING RELAY	EA	15	13.56
48307	POTENTIAL STARTING RELAY	EA	15	12.47
48310	POTENTIAL STARTING RELAY	EA	15	12.47
48311	POTENTIAL STARTING RELAY	EA	15	12.25
48313	POTENTIAL STARTING RELAY	EA	15	13.12
48314	POTENTIAL STARTING RELAY	EA	15	13.12
48315	POTENTIAL STARTING RELAY	EA	15	13.56
48316	POTENTIAL STARTING RELAY	EA	15	14.36
48317	POTENTIAL STARTING RELAY	EA	15	13.12
48318	POTENTIAL STARTING RELAY	EA	15	13.56
48320	POTENTIAL STARTING RELAY	EA	15	12.47
48327	POTENTIAL STARTING RELAY	EA	15	11.89
48330	SWITCH STARTING RELAY	EA	15	11.31
48331	SWITCH STARTING RELAY	EA	15	9.86
48332	SWITCH STARTING RELAY	EA	15	11.60
48333	SWITCH STARTING RELAY	EA	15	15.01
48335	SWITCH STARTING RELAY	EA	15	15.30
48400	POTENTIAL STARTING RELAY	EA	15	14.36
48402	POTENTIAL STARTING RELAY	EA	15	13.56
48403	POTENTIAL STARTING RELAY	EA	15	13.12
48426	ENCL FAN RELAY 24V SPST	EA	15	7.76
48427	ENCL FAN RELAY 115V SPST	EA	15	8.05
48428	ENCL FAN RELAY 230V SPST	EA	15	8.41
48429	ENCL FAN RELAY 24V SPDT	EA	15	8.48
48430	ENCL FAN RELAY 115V SPDT	EA	15	8.70
48431	ENCL FAN RELAY 230V SPDT	EA	15	8.85
48434	RELAY 24V 3PDT OPEN TYPE	EA	15	15.76
48437	RELAY 24V 3PDT ENCLOSED	EA	15	15.40
48438	CONTACTOR 24V 2 POLE 18A	EA	15	13.59
48439	CONTACTOR 12V 2 POLE 18A	EA	15	13.59
48444	RELAY 120V 3PDT OPEN TYPE	EA	15	14.75
48447	RELAY 120V 3PDT ENCLOSED	EA	15	15.59
48450	90-360 24V RELAY	EA	15	7.66
48451	90-362 115V RELAY	EA	15	8.45
48452	90-364 230V RELAY	EA	15	8.93
48454	90-372 115V RELAY	EA	15	10.93
48455	90-374 230V RELAY	EA	15	11.01
48462	RELAY 24V 2PDT	EA	16	12.97
48472	RELAY 115V 2PDT	EA	16	13.41
48482	RELAY 230V 2PDT	EA	16	13.92
48490	ADD-A-RELAY 24V SPST	EA	15	16.10
48491	ADD-A-RELAY 115V SPST	EA	15	16.20
48492	ADD-A-RELAY 230V SPST	EA	15	16.40
48493	LOCK OUT RELAY 24V	EA	15	10.15
48494	LOCK OUT RELAY 220V	EA	15	10.44
48495	ADD-A-RELAY 24V SPDT	EA	15	19.88
48496	ADD-A-RELAY 115V SPDT	EA	15	20.76
48497	ADD-A-RELAY 230V SPDT	EA	15	20.95
48620	CAPACITR END CAP 1 7/16"OD PLT	EA	14	.19
48621	CAPACTR END CAP 1 15/16"OD PLS	EA	14	.23
48623	CAPACTR END CAP 2 9/16"OD PLST	EA	14	.38
48624	CAPACTR MTG BRACKT 2 3/4"	EA	14	.45
48625	CAPACITOR MTG BRACKET 3 3/8" L	EA	14	.47
48626	CAPACITR MTG BRACKET 4 3/8" L	EA	14	.60
48627	MARS RESISTOR 2W 15000 OHM	EA	14	.39
48828	REV PWR ELEMENT ASSY	EA	44	16.16
48866	2 PIPE SELECTAFLOW VALVE	EA	44	302.94
48870	POWER ELEMENT ASSY	EA	44	100.98
48872	POWER ELEMENT ASSY	EA	44	127.91
48877	TA 21315 KNOB	EA	44	3.37
48878	S1191 CAP SCREW	EA	44	.67
48879	TA 212123 GASKET	EA	44	1.04
48880	HOT WTR BALL & GUIDE ASSY	EA	44	14.63
48881	FULCRUM ASSY	EA	44	16.16
48883	TA212146 SPRING	EA	44	2.69
48884	S1184 BALL COOLNG	EA	44	2.02
48885	REV PWR ELEMENT ASSY	EA	44	20.20
48886	INLET STRAINER	EA	44	4.71
48891	TA212130B4 GASKET	EA	44	1.35
48892	"O" RING INLET STRAINER	EA	44	.67
48893	77545 GASKET	EA	44	2.02
48970	SEAT COOLING	EA	44	6.73
48972	PUSH ROD	EA	44	8.08
48973	"O" RING	EA	44	.67
48974	REVERSING BALL	EA	44	2.02
48977	OVERIDE SPRG	EA	44	3.37
48978	TA21348 STRAINER	EA	44	4.71
48979	GUIDE ASSY	EA	44	5.39
48980	REVERSING SEAT	EA	44	8.08
49176	MAGNETIS DR GASKET	EA	49	12.55
49177	MAGNETIC DR GASKET	EA	49	15.99
49178	MAGNETIC DR GASKET	EA	49	17.76
49181	100FT ROLL DR GASKET	EA	49	44.09
49300	MAGNETIC DR GASKET	EA	49	23.15
49301	JMAGNETIC DR GASKET	EA	49	21.20
49323	MAGNETIC DR GASKET	EA	49	26.15
49324	MAGNETIC DR GASKET	EA	49	34.37
49328	MAGNETIC DR GASKET	EA	49	26.68
49333	MAGNETIC DR GASKET	EA	49	30.66
49334	MAGNETIC DR GASKET	EA	49	43.29
49335	100FT ROLL 3/8"ID DRAIN TUBE	ROL	38	11.35
49336	100FT ROLL 1/2" DRAIN TUBE	ROL	38	15.25
49337	100FT ROLL 5/8"ID DRAIN TUBE	ROL	38	18.78
49339	50FT ROLL 7/8"ID DRAIN TUBE	ROL	38	20.87
49346	100FT ROLL 1/4"ID DRAIN TUBE	ROL	38	9.74
49352	GASKET 100FT ROLL	ROL	50	72.53
49353	GASKET 100FT ROLL	ROL	50	81.37
49354	GASKET 100FT ROLL	ROL	50	131.55
49355	GASKET 100FT ROLL	ROL	50	94.09
49362	GASKET 100FT ROLL	ROL	49	84.46
49363	GASKET 100FT ROLL	ROL	49	90.38
49365	GASKET 100FT ROLL	ROL	49	277.07
49369	GASKET 25FT ROLL	ROL	50	24.74
49370	GASKET 25FT ROLL	ROL	50	26.95
49371	GASKET 25FT ROLL	ROL	50	39.49
49372	GASKET 25FT ROLL	ROL	50	30.13
49373	GASKET 25FT ROLL	ROL	49	24.30
49374	GASKET 25FT ROLL	ROL	49	26.24
49375	GASKET 25FT ROLL	ROL	49	27.74
49376	GASKET 25FT ROLL	ROL	49	29.24
49379	GASKET 25FT ROLL	ROL	49	46.30
49380	GASKET 25FT ROLL	ROL	49	50.45
49381	GASKET 25FT ROLL	ROL	49	55.75
49382	GASKET 25FT ROLL	ROL	49	50.45
49383	GASKET 50FT ROLL	ROL	49	242.17
49384	GASKET 25FT ROLL	ROL	49	26.15
49385	GASKET 25FT ROLL	ROL	49	27.65
49386	GASKET 25FT ROLL	ROL	49	34.28
49388	PKG(OF 4) 2 X 2 X 3/8 RUBR PAD	PKG	16	1.92
49389	MP-18 18"X18"X3/8" RUBR SHEET	EA	16	15.66
49398	100FT ROLL 3/4"ID DRAIN TUBE	ROL	38	28.60
49400	CHGE CYL 2.5LB CAP.	EA	86	137.15
49401	CHG CYL 5LB CAP.	EA	86	141.40
49403	CHGE CYL IN CASE 5LB CAP.	EA	86	273.06
49404	PINCH OFF TOOL	EA	79	16.64
49406	ADAPT KIT FOR PROCESS TUBE	EA	79	39.95
49407	TEST CORD 110V	EA	79	55.55
49408	TEST CORD 220V	EA	79	73.35
49409	TUBING GAUGE	EA	76	3.75
49415	A CHGE CYL 10LB CAP	EA	86	186.65
49428	CHGE VALVE FOR GE	EA	79	34.80
49440	HTG ELEMENT 50W 110V	EA	86	18.86
49457	DIG. VOLT AMP WATT METER	EA	85	271.30
49458	VAC PUMP 4.5CFM 2 STG 115/60/1	EA	70	351.24
49459	VAC PMP 4.5CFM2STG110/220/50/1	EA	70	333.50
49463	CHARGING STATION 5LB	EA	86	887.05
49464	CHARGING STATION 10LB	EA	86	1076.20
49473	MANOMETER U TUBE 5"	EA	92	107.20
49474	F SCALE ONLY 127MM	EA	92	19.20
49475	U TUBE REPL FOR 49473	EA	92	38.40
49476	3/16FE SAE X 1/4M SAE HOSE	EA	19	7.31
49553	AL FAN 5/16BORE 10" 18F 3BLADE	EA	63	8.30
49554	AL FAN 5/16BORE 10" 23F 4BLADE	EA	63	8.30
49555	AL FAN 3/8BORE 10" 18F 4BLADE	EA	63	8.30
49556	AL FAN 5/16BORE 12" 18F 4BLADE	EA	63	9.70
49557	AL FAN 3/8BORE 12" 18F 4BLADE	EA	63	9.70
49558	AL FAN 3/8BORE 12" 23F 4BLADE	EA	63	9.70
49559	AL FAN 1/2BORE 12" 23F 4BLADE	EA	63	6.83
49573	AL FAN 5/16BORE 10" 23F 4BLADE	EA	63	8.30
49574	AL FAN 5/10BORE 12" 23F 4BLADE	EA	63	9.70
49575	AL FAN 3/8BORE 12" 23F 4BLADE	EA	63	9.70
49576	AL FAN 1/2BORE 12" 23F 4BLADE	EA	63	9.70
49577	AL FAN 3/8BORE 14" 23F 4BLADE	EA	63	8.72
49578	AL FAN 1/2BORE 14" 23F 4BLADE	EA	63	11.20
49579	AL FAN 3/8BORE 16" 23F 4BLADE	EA	63	13.82
49580	AL FAN 1/2BORE 16" 23F 4BLADE	EA	63	13.82
49581	AL FAN 5/8BORE 16" 23F 4BLADE	EA	63	13.82
49582	AL FAN 1/2BORE 18" 23F 4BLADE	EA	63	15.20
49583	AL FAN 5/8BORE 18" 23F 4BLADE	EA	63	15.20
49584	AL FAN 1/2BORE 20" 23F 4BLADE	EA	63	12.02
49585	AL FAN 5/8BORE 20" 23F 4BLADE	EA	63	18.13
49586	AL FAN 3/8BORE 12" 18F 4BLADE	EA	63	11.20
49587	AL FAN 1/2BORE 14" 18F 4BLADE	EA	63	11.20
49588	AL FAN 1/2BORE 14" 23F 4BLADE	EA	63	11.20
49589	AL FAN 1/2BORE 16" 23 4BLADE	EA	63	13.82
49688	AL FAN 5/16BORE 10" 18F 4BLADE	EA	63	8.30
49689	AL FAN 3/8BORE 10" 23F 4BLADE	EA	63	8.30
49690	AL FAN 5/16BORE 12" 18F 4BLADE	EA	63	9.69
49691	AL FAN 3/8BORE 12" 18F 4BLADE	EA	63	9.70
49692	AL FAN 1/2BORE 12" 18F 4BLADE	EA	63	9.70
49693	AL FAN 3/8BORE 14" 18F 4BLADE	EA	63	11.20
49694	AL FAN 1/2BORE 14" 18 4BLADE	EA	63	11.20
49695	AL FAN 3/8BORE 16" 18F 4BLADE	EA	63	13.82
49696	AL FAN 1/2BORE 16" 18F 4BLADE	EA	63	10.98
49697	AL FAN 1/2BORE 18" 18F 4BLADE	EA	63	15.20
49698	AL FAN 1/2BORE 20" 18F 4BLADE	EA	63	18.13
49800	2MFD 370V RUN CAPACITOR	EA	14	2.89
49801	3MFD 370V RUN CAPACITOR	EA	14	2.99
49803	4MFD 370V RUN CAPACITOR	EA	14	2.99
49805	5MFD 370V RUN CAPACITOR	EA	14	3.08
49806	6MFD 370V RUN CAPACITOR	EA	14	3.27
49809	7.5MFD 370V RUN CAPACITOR	EA	14	4.14
49810	10 MFD 370V RUN CAPACITOR	EA	14	4.52
49812	12.5MFD 370V RUN CAPACITOR	EA	14	4.99
49814	15MFD 370V RUN CAPACITOR	EA	14	5.57
49816	17.5MFD 370V RUN CAPACITOR	EA	14	5.93
49818	20MFD 370V RUN CAPACITOR	EA	14	6.39
49820	25MFD 370V RUN CAPACITOR	EA	14	6.96
49823	30MFD 370V RUN CAPACITOR	EA	14	8.37
49826	35MFD 370V RUN CAPACITOR	EA	14	9.03
49830	40MFD 370V RUN CAPACITOR	EA	14	10.08
49831	45MFD 370V RUN CAPACITR	EA	14	10.91
49832	50MFD 370V RUN CAPACITR	EA	14	11.34
49836	20-5MFD 440V DUAL RUN CAPACITR	EA	14	14.30

PART	DESCRIPTION	UOM	PAGE	PRICE
49837	25-4MFD 440V DUAL RUN CAPACITR	EA	14	17.04
49838	35-3MFD 440V DUAL RUN CAPACITR	EA	14	18.44
49839	35-5MFD 440V DUAL RUN CAPACITR	EA	14	14.25
49842	7.5MFD 440V RUN CAPACITR	EA	14	5.13
49845	3MFD 440V RUN CAPACITR	EA	14	3.20
49846	4MFD 440V RUN CAPACITR	EA	14	3.38
49847	5MFD 440V RUN CAPACITOR	EA	14	3.48
49850	10MFD 440V RUN CAPACITR	EA	14	6.21
49851	12.5MFD 440V RUN CAPACITR	EA	14	6.07
49853	40MFD 440V RUN CAPACITR	EA	14	13.33
49854	15MFD 440V RUN CAPACITR	EA	14	6.51
49855	17.5MFD 440V RUN CAPACITR	EA	14	6.93
49858	30MFD 440V RUN CAPACITR	EA	14	10.61
49862	20MFD 440V RUN CAPACITR	EA	14	7.90
49863	25MFD 440V RUN CAPACITR	EA	14	9.10
49866	25MFD 440V RUN CAPACITR	EA	14	13.09
49871	DISC BY MFG	EA	44	39.53
49873	15-4MFD 370V DUAL RUN CAPACITR	EA	14	6.98
49874	15-5MFD 370V DUAL RUN CAPACITR	EA	14	7.03
49875	17.5-4MFD 370V DUAL RUN CAPCTR	EA	14	7.12
49876	17.5-5MFD 370V DUAL RUN CAPACT	EA	14	7.17
49878	20-5MFD 370V DUAL RUN CAPACTR	EA	14	7.62
49879	25-4MFD 370V DUAL RUN CAPACITR	EA	14	8.68
49880	25-5MFD 370V DUAL RUN CAPACTR	EA	14	8.96
49884	30-5MFD 370V DUAL RUN CAPACITR	EA	14	9.92
49885	35-5MFD 370V DUAL RUN CAPACITR	EA	14	11.14
49886	15-3MFD 370V DUAL RUN CAPACITR	EA	14	8.18
49888	25-3MFD 370V DUAL RUN CAPACITR	EA	14	10.11
49892	35-3MFD 370V DUAL RUN CAPACITR	EA	14	11.31
49898	15-10MFD 370V DUAL RUN CAPACTR	EA	14	7.62
49899	35-4MFD 370V DUAL RUN CAPACITR	EA	14	10.96
49932	RUBBER MTG 1" DIA X 3/4" W/STU	EA	62	.59
49933	RUBBER MTG 1" DIA X 1" W/STUD	EA	62	.61
49934	RUBBER MTG 1 3/8D X 1" W/STUD	EA	62	.69
4L100	HACO V BELT	EA	63	4.80
4L170	HACO V BELT	EA	63	1.77
4L180	HACO V BELT	EA	63	1.77
4L190	HACO V BELT	EA	63	1.77
4L200	HACO V BELT	EA	63	1.77
4L210	HACO V BELT	EA	63	1.77
4L220	HACO V BELT	EA	63	1.77
4L230	HACO V BELT	EA	63	1.77
4L240	HACO V BELT	EA	63	1.77
4L250	HACO V BELT	EA	63	1.77
4L260	HACO V BELT	EA	63	1.80
4L270	HACO V BELT	EA	63	1.82
4L280	HACO V BELT	EA	63	1.85
4L290	HACO V BELT	EA	63	1.88
4L300	HACO V BELT	EA	63	1.91
4L310	HACO V BELT	EA	63	1.94
4L320	HACO V BELT	EA	63	1.97
4L330	HACO V BELT	EA	63	2.00
4L340	HACO V BELT	EA	63	2.04
4L350	HACO V BELT	EA	63	2.07
4L360	HACO V BELT	EA	63	2.11
4L370	HACO V BELT	EA	63	2.14
4L380	HACO V BELT	EA	63	2.18
4L390	HACO V BELT	EA	63	2.24
4L400	HACO V BELT	EA	63	2.28
4L410	HACO V BELT	EA	63	2.32
4L420	HACO V BELT	EA	63	2.35
4L430	HACO V BELT	EA	63	2.39
4L440	HACO V BELT	EA	63	2.45
4L450	HACO V BELT	EA	63	2.50
4L460	HACO V BELT	EA	63	2.52
4L470	HACO V BELT	EA	63	2.55
4L480	HACO V BELT	EA	63	2.57
4L490	HACO V BELT	EA	63	2.59
4L500	HACO V BELT	EA	63	2.62
4L510	HACO V BELT	EA	63	2.65
4L520	HACO V BELT	EA	63	2.68
4L530	HACO V BELT	EA	63	2.71
4L540	HACO V BELT	EA	63	2.74
4L550	HACO V BELT	EA	63	2.77
4L560	HACO V BELT	EA	63	2.81
4L570	HACO V BELT	EA	63	2.84
4L580	HACO V BELT	EA	63	2.86
4L590	HACO V BELT	EA	63	2.89
4L600	HACO V BELT	EA	63	2.93
4L610	HACO V BELT	EA	63	2.96
4L620	HACO V BELT	EA	63	2.99
4L630	HACO V BELT	EA	63	3.04
4L640	HACO V BELT	EA	63	3.06
4L650	HACO V BELT	EA	63	3.11
4L660	HACO V BELT	EA	63	3.14
4L670	HACO V BELT	EA	63	3.14
4L680	HACO V BELT	EA	63	3.21
4L690	HACO V BELT	EA	63	3.25
4L700	HACO V BELT	EA	63	3.28
4L710	HACO V BELT	EA	63	3.35
4L720	HACO V BELT	EA	63	3.42
4L730	HACO V BELT	EA	63	3.45
4L740	HACO V BELT	EA	63	3.46
4L750	HACO V BELT	EA	63	3.49
4L760	HACO V BELT	EA	63	3.52
4L770	HACO V BELT	EA	63	3.56
4L780	HACO V BELT	EA	63	3.62
4L790	HACO V BELT	EA	63	3.68
4L800	HACO V BELT	EA	63	3.73
4L820	HACO V BELT	EA	63	3.85
4L840	HACO V BELT	EA	63	3.96
4L860	HACO V BELT	EA	63	4.08
4L880	HACO V BELT	EA	63	4.19
4L900	HACO V BELT	EA	63	4.31
4L920	HACO V BELT	EA	63	4.42
4L940	HACO V BELT	EA	63	4.52
4L960	HACO V BELT	EA	63	4.62
5L250	HACO V BELT	EA	63	2.17
5L260	HACO V BELT	EA	63	2.22
5L270	HACO V BELT	EA	63	2.28
5L290	HACO V BELT	EA	63	2.38
5L300	HACO V BELT	EA	63	2.42
5L310	HACO V BELT	EA	63	2.48
5L320	HACO V BELT	EA	63	2.54
5L330	HACO V BELT	EA	63	2.59
5L340	HACO V BELT	EA	63	2.65
5L350	HACO V BELT	EA	63	2.69
5L360	HACO V BELT	EA	63	2.75
5L370	HACO V BELT	EA	63	2.79
5L380	HACO V BELT	EA	63	2.85
5L390	HACO V BELT	EA	63	2.93
5L400	HACO V BELT	EA	63	3.05
5L410	HACO V BELT	EA	63	3.14
5L420	HACO V BELT	EA	63	3.21
5L430	HACO V BELT	EA	63	3.28
5L440	HACO V BELT	EA	63	3.35
5L450	HACO V BELT	EA	63	3.42
5L460	HACO V BELT	EA	63	3.49
5L470	HACO V BELT	EA	63	3.56
5L480	HACO V BELT	EA	63	3.63
5L490	HACO V BELT	EA	63	3.70
5L500	HACO V BELT	EA	63	3.76
5L510	HACO V BELT	EA	63	3.82
5L520	HACO V BELT	EA	63	3.88
5L530	HACO V BELT	EA	63	3.93
5L540	HACO V BELT	EA	63	3.99
5L550	HACO V BELT	EA	63	4.03
5L560	HACO V BELT	EA	63	4.06
5L570	HACO V BELT	EA	63	4.11
5L580	HACO V BELT	EA	63	4.13
5L590	HACO V BELT	EA	63	4.16
5L600	HACO V BELT	EA	63	4.19
5L610	HACO V BELT	EA	63	4.22
5L620	HACO V BELT	EA	63	4.25
5L630	HACO V BELT	EA	63	4.28
5L640	HACO V BELT	EA	63	4.33
5L650	HACO V BELT	EA	63	4.39
5L660	HACO V BELT	EA	63	4.45
5L670	HACO V BELT	EA	63	4.50
5L680	HACO V BELT	EA	63	4.56
5L690	HACO V BELT	EA	63	4.62
5L700	HACO V BELT	EA	63	4.66
5L710	HACO V BELT	EA	63	4.70
5L720	HACO V BELT	EA	63	4.76
5L730	HACO V BELT	EA	63	4.83
5L740	HACO V BELT	EA	63	4.89
5L750	HACO V BELT	EA	63	4.95
5L760	HACO V BELT	EA	63	5.00
5L770	HACO V BELT	EA	63	5.07
5L780	HACO V BELT	EA	63	5.13
5L800	HACO V BELT	EA	63	5.27
5L820	HACO V BELT	EA	63	5.42
5L840	HACO V BELT	EA	63	5.56
5L860	HACO V BELT	EA	63	5.74
5L880	HACO V BELT	EA	63	5.84
5L900	HACO V BELT	EA	63	5.96
5L920	HACO V BELT	EA	63	6.07
5L940	HACO V BELT	EA	63	6.22
5L960	HACO V BELT	EA	63	6.42
60120	J152 COMPACT COOLED CONDENSER	EA	22	167.10
60122	10HP WATER COOLED CONDENSER	EA	22	875.61
60190	VENT DAMPER 3"	EA	61	21.99
60191	VENT DAMPER 4"	EA	61	25.99
60192	VENT DAMPER 5"	EA	61	29.99
60193	VENT DAMPER 6"	EA	61	35.99
60194	VENT DAMPER 7"	EA	61	39.99
60195	VENT DAMPER 8"	EA	61	46.99
60358	BLOWER MULLION	EA	20	208.40
60359	BLOWER MULLION	EA	20	240.94
60360	BLOWER MULLION	EA	20	280.15
60374	5521 R DEF CTRL	EA	20	12.90
60375	5507 S FAN CTRL	EA	20	25.17
60417	5001MS MOTOR	EA	20	39.91
60418	5002MS MOTOR	EA	20	92.07
60421	5030SS MOTOR	EA	20	17.74
60422	5101 B FAN BLADE	EA	20	.89
60430	5001L 115V MOTOR	EA	20	34.69
60432	5008T 208/230 MTR	EA	20	43.86
60435	5034MS 230V MOTOR	EA	20	42.70
60436	5030TS MOTOR 230V	EA	20	22.67
60440	MJ 70 MIDJETTE UNIT COOLER	EA	22	58.19
60441	MJ120 MIDJETTE UNIT COOLER	EA	22	86.43
60444	5034L 115V MOTOR	EA	20	41.40
60460	SF-135 BLOWER COIL	EA	22	97.98
60461	SF-175 BLOWER COIL	EA	22	100.97
60462	SF-235 BLOWER COIL	EA	22	115.94
60463	SF-305 BLOWER COIL	EA	22	163.01
60466	PLP-600 BLOWER COIL	EA	22	192.96
60467	PLP-750 BLOWER COIL	EA	22	259.28
60468	PLP-1000 BLOWER COIL	EA	22	295.21
60469	HD900 HALF DOME UNIT COOLER	EA	22	536.08
60470	RO81 RELAY OVERLD	EA	16	8.30
60472	RO41 RELAY OVERLD	EA	16	8.30
60473	RO82 RELAY OVERLD	EA	16	8.30
60474	RO62 RELAY OVLD	EA	16	8.30
60475	RO42 RELAY OVLD	EA	16	8.30
60476	TIMER DELAY ON MAKE	EA	16	13.12
60492	HD350 HALF DOME UNIT COOLER	EA	22	338.42
60493	HD450 HALF DOME UNIT COOLER	EA	22	382.07
60494	HD600 HALF DOME UNIT COOLER	EA	22	439.39
60499	DRIER 1/4OD TUBE	EA	33	5.28
60500	TAP VALVE FOR 3/16 OD TUBE	EA	18	1.90
60501	TAP VALVE FOR 1/4 OD TUBE	EA	18	1.90
60502	TAP VALVE FOR 5/16 OD TUBE	EA	18	1.90
60504	TAP VALVE FOR 1/2 OD TUBE	EA	18	2.00
60508	TAP VALVE FOR 3/4 OD TUBE	EA	18	5.55
60509	TAP VALVE FOR 7/8 OD TUBE	EA	18	5.55
60510	CONDENSATE DRAIN PAN 115V	EA	71	21.99
60511	WALL MOUNT FOR 60510	EA	71	2.60
60513	SLIDE MOUNT FOR 60510	EA	71	3.46

PART	DESCRIPTION	UOM	PAGE	PRICE
60514	TAP VALVE 1/4-3/8OD	EA	18	1.90
60515	TAP VALVE 1/2-5/8OD	EA	18	2.00
60531	TAP VALVE 1 3/8OD	EA	44	12.43
60532	TAP VALVE 1 1/8OD	EA	44	12.43
60533	TAP VALVE 7/8OD	EA	44	12.43
60536	1/4SAE FE X 1/4" SAE ACCES FTG	EA	18	2.98
60537	1/8MIPT X 1/4" SAE ACCES FTG	EA	18	1.73
60545	SELF TAP SADDLE VALVE	EA	45	1.62
60546	110V RELAY & CAPACITOR	EA	14	8.43
60547	220V RELAY & CAPACITOR	EA	14	8.95
60548	MFD-10 CAPACITOR TESTER	EA	90	61.04
60549	TEMP BUZZER ALARM SYSTEM	EA	56	41.71
60557	PT-100 DIGITAL POCKET THERM	EA	54	52.91
60563	SYT8 9 RELAY & OVL SOLID STATE	EA	16	10.46
60564	SYT6 RELAY & OVL SOLID STATE	EA	16	10.46
60565	SYT5 RELAY & OVL SOLID STATE	EA	16	10.46
60566	SYT4 RELAY & OVL SOLID STATE	EA	16	10.46
60567	SYT3 RELAY & OVL SOLID STATE	EA	16	10.46
60569	PUSH ON RELAY 230V	EA	16	3.25
60570	SPP STARTER	EA	16	6.46
60571	PUSH ON RELAY 115V	EA	16	3.13
60573	RCP 810 115V RELAY-CAP-OVL	EA	14	11.47
60574	RCO 410 115V	EA	14	11.47
60575	RCO 820 230V RELAY-CAP-OVL	EA	14	12.04
60576	RCO 620 230V RELAY-CAP-OVL	EA	14	12.04
60577	RCO 420 230V RELAY-CAP-OVL	EA	14	12.04
60592	BJ10 BELT JACK	EA	63	17.85
60593	ADJ COMP-MTR MTG KIT	EA	13	9.20
60594	HARD START RELAY-CAPACITOR	EA	16	10.40
60596	AC1 ACCESS FITTNG	EA	1	8.36
60597	HARD START RELAY-CAPACITOR	EA	16	16.91
60598	CONDENSATE EVAP PAN	EA	71	32.14
60599	CONDENSATE EVAP PAN	EA	71	47.19
60600	10LB SCALE REMOVER	EA	73	23.33
60609	ICE MACH CLEANER 8 OZ	EA	73	2.00
60619	DEGREASEING SOLVENT	EA	73	12.73
60632	ACID TEST KIT	EA	66	4.63
60634	ICE MACH CLEANER 1 GAL	EA	73	26.62
60639	14 OZ BEE-WASP SPRAY	EA	66	4.37
60652	REFRIG OIL	EA	66	10.59
60653	5 GAL 3GS REFRIG OIL	EA	66	56.95
60655	GAL 4GS REFRIG OIL	EA	66	12.06
60656	5 GAL 4GS REFRIG OIL	EA	66	51.30
60658	GAL 5GS REFRIG OIL	EA	66	11.77
60659	5 GAL 4GS REFRIG OIL	EA	66	56.65
60667	1 GAL ACTI-BRITE	EA	72	7.72
60668	GAL OF ACTI-KLEAN	EA	72	7.72
60669	GAL OF ALKI-FOAM	EA	72	7.72
60670	16 OZ AIR FILTER CLEANER	EA	73	2.59
60672	QT GEN PURPOSE CLEANER	EA	73	3.30
60693	14 OZ DEGREASING SOLVENT	EA	72	2.72
60694	5 GAL OF ACTI-BRITE	EA	72	38.61
60695	5 GAL ACTI-KLEAN	EA	72	38.61
60696	5 GAL ALKI-FOAM	EA	72	38.61
60700	FOAM INSULATION	EA	64	20.76
60703	30A05011 NRL NOZZLE W/TUBING	EA	64	1.40
60704	30A03011 NFL NOZZLE W/TUBING	EA	64	1.40
60705	30A01011 NSL NOZZLE W/TUBING	EA	64	1.40
60716	FOMOFILL 36OZ CAN	EA	64	14.48
60717	FOMOFILL 12 OZ CAN	EA	64	6.26
60719	CAULKING GUN FOR 1102 CART	EA	79	3.34
60720	CAP TUBE GAUGE	EA	76	21.39
60721	CAP TUBE KIT (12 PCS)	EA	20	65.75
60730	3/8 SOLDER BALL VALVE	EA	44	25.95
60731	1/2 SOLDER BALL VALVE	EA	44	25.95
60732	5/8 SOLDER BALL VALVE	EA	44	25.95
60733	7/8 SOLDER BALL VALVE	EA	44	41.76
60734	11/8 SOLDER BALL VALVE	EA	44	59.52
60735	13/8 SOLDER BALL VALVE	EA	44	103.14
60736	15/8 SOLDER BALL VALVE	EA	44	118.30
60750	CD3900 CRT TOOL	EA	79	21.17
60751	AVS-44 TEE ACCESS CONN	EA	18	3.01
60752	AVS-64 TEE ACCESS CONN	EA	18	3.01
60753	ACCESS VALVE TOOL	EA	83	3.53
60754	CORE DEPRESSOR 1/4SAE	EA	18	4.02
60755	B1-4S 1/4 TAP VALVE	EA	18	1.75
60756	B1-5S 5/16"TAP VALVE	EA	18	1.75
60757	B1-6S 3/8" TAP VALVE	EA	18	1.86
60758	B1-8S 1/2" TAP VALVE	EA	18	1.86
60759	B1-10S 5/8" TAP VALVE	EA	18	1.86
60769	REPLACEMENT PUMP FOR 60775	EA	72	155.81
60770	PRESSURE WASHER 280PSI	EA	72	238.50
60771	REPL PUMP FOR 60770	EA	72	84.90
60772	INLINE FILTER PKG OF 5	PKG	72	7.79
60773	15FT PRESS HOSE	EA	72	17.43
60774	24" EXTENSION	EA	72	8.97
60775	5000B JET STREAMER 500-550 PSI	EA	72	450.00
60776	5016 15' PRESSURE HOSE	EA	72	21.47
60777	WHEEL KIT 4 CASTERS	KIT	72	12.53
60778	5026 24" EXTENSION WAND	EA	72	9.66
60779	REPL MONEL SCREEN (PKG OF 3)	PKG	72	5.19
60792	1500 JETMATE 1/2HP	EA	72	794.25
60793	8000 HEAVY DUTY PRESSURE WASHE	EA	72	823.80
60890	NYLON TIES (PKG OF 100) 7 3/4"	PKG	54	7.62
60891	NYLON TIES (PKG OF 50) 15"	PKG	54	10.89
60892	NYLON TIES (PKG OF 25) 30"	PKG	54	19.48
60900	D1/4FW 1/4TON F12 TX VALVE	EA	35	23.13
60901	D1/2FW 1/2TON F12 TX VALVE	EA	35	23.13
60902	D1FW 1TON F12 TX VALVE	EA	35	23.13
60903	D11/2FW 11/2 TON F12 TX VALVE	EA	35	23.13
60904	D2FW 2TON F12 TX VALVE	EA	35	23.13
60905	D3FW 3TON F12 TX VALVE	EA	35	23.13
60907	D1 1/2VW 1 1/2 TON F22 EXP VLV	EA	35	23.50
60908	D3VW 3TON F22 TX VALVE	EA	35	23.13
60909	D1/2RW 1/2TONF502 TX VALVE	EA	35	23.13
60910	D1RW 1TON F502 TX VALVE	EA	35	23.13
60911	D28W 2TON F502 TX VALVE	EA	35	23.13
60912	D3RW 3TON F502 TX VALVE	EA	35	23.13
60913	DE1/2 1/2T F12 TX VALVE	EA	35	26.78
60914	DE1FW 1TON F12 TX VALVE	EA	35	26.78
60915	DE2FW 2TON F12 TX VALVE	EA	35	26.78
60916	DE3FW 3TON F12 TX VALVE	EA	35	26.78
60917	DE3VW 3TON F22 TX VALVE	EA	35	26.78
60919	DE1RW 1TON F502 TX VALVE	EA	35	26.78
60920	DE2RW 2TON F502 TX VALVE	EA	35	26.78
60921	DE3RW 3TON F502 TX VALVE	EA	35	26.78
60970	N 1/4 FW F12 TX VALVE	EA	35	20.37
60971	N1/4 1/2FW F12 TX VALVE	EA	35	20.37
60972	N1FW F12 TX VALVE	EA	35	20.37
60973	N2FW F12 TX VALVE	EA	35	20.37
61014	GE 280 CLEAR SILICONE SEAL	EA	52	2.24
61015	GE 285 ALUMINUM SILICONE SEAL	EA	52	2.24
61016	GE 281 WHITE SILICONE SEAL	EA	52	2.24
61017	GE 283 BLACK SILICONE SEAL	EA	52	2.24
61068	GE 5090 WHITE PAINTABLE CAULK	EA	52	4.78
61073	GE 5000 CLEAR SILICONE SEAL	EA	52	4.78
61074	GE 5050 SLUMINUM SILICONE SEAL	EA	52	4.78
61075	GE 5070 WHITE SILICONE SEAL	EA	52	4.78
61076	GE 5030 BLACK SILICONE SEAL	EA	52	4.78
61100	IDEX225-120-10 10'ANGLE GREY	EA	53	8.55
61108	IDEX140-120-10 10' ANGLE GREY	EA	53	6.19
61140	STD. NUTS & BOLTS 5/16"X5/8"	EA	53	.09
61141	DISC BY MFG NO SUB	EA	53	.12
61142	HVY. DTY. NUTS & BLTS 3/8"X1"	EA	53	.11
61190	STANDARD TRUCK TOOL CHEST	EA	77	512.46
61192	4 DRAWER MAX1 TRUCK CHEST	EA	77	604.44
61197	3 DRAWER SMALL TRUCK TOOL CHST	EA	77	512.46
61250	TOOL CASE 18 1/2X13"X4 1/4"	EA	77	74.48
61251	TOOL CASE 18 1/2X13X6"	EA	77	89.68
61252	ORGANIZER PALLET	EA	77	19.76
61270	2 IN 1K HAND RIVETER	EA	82	38.11
61271	AS42DJ ALUM RIVET (PKG OF 1000	PKG	82	11.10
61272	AS44DJ ALUM RIVET PKG OF 1000	PKG	82	12.16
61273	SS42DJ PLATED STL PKG 1000	PKG	82	10.74
61274	SS44DJ PLATED STL PKG OF 1000	PKG	82	11.71
61277	TOOL CASE 18 1/2X 13X7 1/2	EA	77	98.80
61304	TOOL BOX 1601	EA	77	22.21
61305	TOOL BOX 1622	EA	77	22.21
61306	TOOL BOX 1602	EA	77	24.94
61307	TOOL BOX 1604	EA	77	45.45
61308	TOOL BOX 1648	EA	77	60.13
61309	TOOL BOX 1612	EA	77	23.91
61314	TOOL BOX 1603	EA	77	28.80
61320	GOGGLE FLEXIBLE MASK	EA	70	1.84
61412	2000W 240V HEATER	EA	50	52.24
61413	FINNED TUBULAR HTR 2500W240V	EA	50	52.24
61414	3000W 240V HEATER	EA	50	52.24
61415	4000W 240V HEATER	EA	50	76.55
61416	4000W 480V HEATER	EA	50	76.55
61430	300W 115V HEATER	EA	50	12.20
61431	450W 115V HEATER	EA	50	13.28
61432	675W 115V HEATER	EA	50	17.33
61433	675W 240V HEATER	EA	50	17.33
61434	850W 115V HEATER	EA	50	20.84
61435	850W 230V HEATER	EA	50	20.84
61436	1000W 230V HEATER	EA	50	22.87
61437	1250W 230V HEATER	EA	50	34.65
61438	1350W 230V HEATER	EA	50	25.46
61439	1500W 230V HEATER	EA	50	41.59
61453	REL VLV 1/4PTX3/8SAE	EA	42	21.98
61454	REL VLV 3/8MPT X 3/8SAE	EA	42	21.98
61455	REL VLV 3/8MPT X 1/2SAE	EA	42	23.51
61457	REL VLV 3/4MPT X 3/4SAE	EA	42	41.18
61474	220W 230V CART HTR	EA	50	26.09
61475	400W 230V CART HTR	EA	50	28.21
61476	500W 230V CART HTR	EA	50	34.34
61485	1700W 220V DEF HEATER	EA	50	62.26
61486	2400W 220V DEF HEATER	EA	50	81.96
61488	1500W 230V DEF HEATER	EA	50	50.40
61489	1900W 230V DEF HEATER	EA	50	60.80
61490	3000W 230V DEF HEATER	EA	50	60.80
61491	2900W 230V DEF HEATER	EA	50	79.74
61586	MOUNTING BRACKET FOR 9"BLOWER	EA	56	7.18
61587	MTR MTG BRKT FOR 10" BLOWER	EA	56	7.98
61600	5/8 DRIER ANGLE SHELL	EA	33	81.08
61601	V8048 7/8 DRIER	EA	33	81.08
61602	7/8 DRIER ANGLE SHELL	EA	33	94.50
61603	1 1/8 DRIER ANGLE SHELL	EA	33	94.50
61606	13/8 DRIER ANGLE SHELL	EA	33	137.63
61607	1 5/8 DRIER ANGLE SHELL	EA	33	137.63
61608	V8300 1 5/8 DRIER	EA	33	278.44
61609	2 1/8 DRIER ANGLE SHELL	EA	33	327.75
61610	848C DRIER CORE	EA	33	7.62
61611	848CM DRIER CORE	EA	33	10.50
61612	810CM DRIER CORE	EA	33	20.58
61613	848F FIL-COR FILTER CORE	EA	33	9.00
61614	810F FILTER CORES	EA	33	13.88
61615	872C CARTRIDGE 2" X 5"	EA	33	16.91
61616	873C CARTRIDGE 3" X 9"	EA	33	29.21
61617	876C CARTRIDGE 4 1/4" X 10 1/2	EA	33	48.04
61622	9270 CHG & PURGE VALVE	EA	18	11.36
61623	9271 CHG & PURGE ANGLE VALVE	EA	18	11.36
61625	9273 CHG & PURGE ANGLE VALVE	EA	18	11.36
61641	5230 450 REL VLV 1/4MPTX3/8SAE	EA	42	21.98
61642	5231 450 REL VLV 3/8MPTX3/8SAE	EA	42	21.98
61643	5231A 235 REL VLV 3/8MPTX1/2SA	EA	42	21.98
61644	5231A 450 REL VLV 3/8MPTX1/2SA	EA	42	23.51
61645	5232 450 REL VLV 1/2MPTX5/8SAE	EA	42	26.66
61649	5242 450 RELVLV 3/4MPTX3/4SAE	EA	42	41.18
61651	5244 450 REL VLV 1MPT X 1FMPT	EA	42	45.00
61652	UK 90 ACID TEST KIT	EA	66	5.10
61658	527 235PSI RELVLV 1/2MPTX5/8SA	EA	42	26.66
61659	527 350PSI REL VLV 1/2MPTX5/8S	EA	42	26.66
61660	527 425PSI REL VLV 1/2MPTX5/8S	EA	42	26.66
61700	HERMETI-CHECK ANALZER	EA	87	140.08
61703	4011 GEN PUR. LOW RANGE PROBE	EA	86	16.07
61704	4012 HIGH TEMP. PROBE	EA	86	20.08
61705	CAP TUBE-CLEANER	EA	77	60.25
61706	CARRYING CASE FOR 61705	EA	77	15.06
61707	EXTENDED BASE FOR 61705	EA	77	10.54

PART	DESCRIPTION	UOM	PAGE	PRICE
61708	CAP TUBE CHASER KIT	EA	76	20.58
61709	CAP TUBE GAUGE	EA	76	4.52
61710	ADAPTER SEALERS (PKG OF 12)	PKG	77	1.58
61711	CHARGE-OIL PUMP TO 250 PSI	EA	71	48.70
61712	REPAIR KIT FOR 61711	EA	71	4.30
61713	AIR BLEED VALVE	EA	71	2.15
61718	1011 5000 PSI GAUGE	EA	77	18.08
61721	ADPT KIT FOR 61711	EA	71	5.52
61724	ELECTRONIC THERMOMETER	EA	86	112.97
61726	7004 7003 CHARG CYL W/CASE	EA	87	99.91
61727	7006 7005 CHAR CYL W/CASE	EA	87	120.00
61729	13001 SUPER COMPON-E CHECK	EA	86	214.39
61730	HERMETI ANALYZER	EA	87	253.05
61734	VACUUM PUMP 1.6 CFM 115V	EA	70	222.16
61736	VACUUM PUMP 3.2 CFM 115V	EA	70	248.05
61737	VACUUM PUMP 6.2 CFM 115V	EA	70	330.77
61739	HEATER ASSY FOR 61726-7	EA	87	15.82
61766	4211 THERMOCOUPLE PROBE	EA	86	14.06
61767	THEMISTOR VAC GAUGE	EA	87	109.95
61768	VACUUM SENSOR FOR 61768	EA	87	24.10
61778	7701 VIZI-VAPR CHARGER	EA	87	29.62
61780	1863 TUNE-UP KIT FOR PUMPS	EA	70	21.52
61790	36" JUMPER WIRES RED & BLK SE	SET	80	6.77
61798	RH-6 AIR BOOSTER 6" DIA	EA	61	17.99
61799	RH-8 AIR BOOSTER 8" DIA	EA	61	22.99
61800	032 DRIER 1/4 SAE	EA	33	6.36
61801	052 DRIER 1/4 SAE	EA	33	8.16
61802	053 DRIER 3/8 SAE	EA	33	8.16
61803	082 DRYER	EA	33	9.42
61804	083 DRIER 3/8 SAE	EA	33	9.42
61805	163 DRIER 3/8 SAE	EA	33	12.28
61806	164 DRIER 1/2 SAE	EA	33	13.38
61807	165 DRIER 5/8 SAE	EA	33	13.56
61808	303 DRIER 3/8 SAE	EA	33	22.70
61809	304 DRIER 1/2 SAE	EA	33	22.70
61810	305 DRIER 5/8 SAE	EA	33	22.70
61811	414 DRIER 1/2 SAE	EA	33	31.41
61812	415 DRIER 5/8 SAE	EA	33	31.41
61815	1635 DRIER 3/8 LD 1/2 OD SOLDR	EA	33	12.28
61816	3045 DRIER 1/2LD 5/8OD SOLDER	EA	33	22.70
61817	305S DRIER 5/8ID 3/4OD SOLDER	EA	33	22.70
61818	414S DRIER 1/2ID 5/8OD SOLDER	EA	33	31.41
61819	415S DRIER 5/8ID 3/4OD SOLDER	EA	33	31.41
61822	756S DRIER 3/4ID 7/8OD SOLDER	EA	33	51.06
61831	NON DIRECT DRIER	EA	33	1.65
61832	STEP DOWN DRIER	EA	33	2.83
61833	COMPACT DRIER	EA	33	4.49
61838	SLD8 5SV DRIER SUCT 5/8 SOLDER	EA	33	18.85
61839	SLD13 5V DRIER SUCT 5/8SAE FI	EA	33	27.90
61843	LITTLE GIANT DR	EA	33	2.09
61844	HERCULES DRYER	EA	33	3.92
61845	619 CHG O DRYER	EA	33	3.87
61846	620 CHG O DRYER	EA	33	4.57
61847	MMS 100 DRYER	EA	33	1.83
61848	162 FIL DRYER	EA	33	12.28
61850	SLD13 5SV DRIER SUCT 5/8 SOLDR	EA	33	27.90
61851	SLD13 6SV DRIER SUCT 3/4 SOLDR	EA	33	28.80
61852	SLD27 7SV DRIER SUCT 7/8 SOLDR	EA	33	33.91
61853	SLD27 9SV DRIER SUCT 1 1/8 SLD	EA	33	40.92
61854	SLD54 11SV DRIR SUCT 1 3/8 SLD	EA	33	55.72
61855	SLD54 13SV DRIR SUCT 1 5/8 SLD	EA	33	67.30
61856	SLD8 3V DRIER SUCT 3/8SAE FL	EA	33	18.67
61858	9.94	EA	33	18.39
61859	SLD8 4SV DRIER SUCT 1/2 SOLDER	EA	33	18.39
61860	PC3FW 3/8X1/2 F12 TX VALVE	EA	34	27.29
61862	PC5HW 3/8X1/2 F22 TX VLV	EA	34	27.29
61863	PC5HW 1/2X5/8 F22 TX VLV	EA	34	27.29
61864	PC4RW 3/8X1/2 F502 TX VLV	EA	34	27.29
61866	CE3FW 3/8X1/2 F12 TX VLV	EA	34	37.06
61867	CE5FW 1/2X5/8 F12 TX VLV	EA	34	30.05
61868	CE5HW 3/8X1/2 F22 TX VLV	EA	34	30.05
61869	CE5HW 1/2X5/8 F22 VLV	EA	34	30.05
61870	CE4RW 3/8X1/2 F502 TX VLV	EA	34	30.05
61873	SE3FW 1/2X7/8 F12 TX VLV	EA	35	41.10
61874	SE5FW 5/8X7/8 F12 TX VLV	EA	35	41.10
61877	SE4VW 21/2 4TON F22 TX VLV	EA	35	41.10
61878	SE71/2VW 5 71/2TN F22 TX VLV	EA	35	41.10
61881	SE3RW 1/3 3TON F502 TX VLV	EA	35	41.10
61887	PCE3FW15 3/8X1/2R F12 TX VLV	EA	34	30.05
61888	PCE4RW35 3/8X1/2R F502 TX VLV	EA	34	30.05
61890	032S DRIER 1/4IDX SOLDER	EA	33	6.72
61891	DRIER 1/4IDX3/8OD SOLDER	EA	33	8.16
61892	DRIER 3/8IDX1/2OD SOLDER	EA	33	8.16
61894	DRIER 3/8IDX1/2OD SOLDER	EA	33	9.42
61897	AUTO EXP VALVE 1/4FPT OUT	EA	34	19.79
61898	AUTO EXP VALVE 1/2SAE OUT	EA	34	21.54
61924	PULLEY 3/4 BORE 5" OD	EA	63	5.25
61925	PULLEY 3/4BORE 6" OD	EA	63	6.63
61926	PULLEY 3/4 BORE 7"OD	EA	63	6.93
61927	PULLEY 3/4 BORE 8"OD	EA	63	7.24
61928	38 2219 01 PULLEY	EA	63	7.99
61929	PULLEY 3/4BORE 10"OD	EA	63	9.21
61930	BEARING 3/4'	EA	64	9.35
61931	BEARING 3/4"	EA	64	16.79
61932	BEARING 1"	EA	64	9.35
61934	38 2615 01 PULLEY	EA	63	5.25
61935	38 2446 01 PULLEY	EA	63	6.63
61936	38 2216 01 PULLEY	EA	63	6.93
61937	38 2218 01 PULLEY 9"	EA	63	7.24
61938	38 2220 01 PULLEY 9"	EA	63	7.99
61939	PULLEY 1" BORE 10"OD	EA	63	9.21
61940	BEARING 5/8" PKG OF 2	PKG	64	7.21
61941	BEARING 3/4" PKG OF 2	PKG	64	7.67
61942	BEARING 1" PKG OF 2	PKG	64	8.11
61943	BEARING 58" PKG OF 2	PKG	64	7.21
61944	BEARING 3/4" PKG OF 2	PKG	64	7.67
61946	BEARING 1" PKG OF 2	PKG	64	8.95
61947	BEARING 3/4" PKG OF 2	PKG	64	8.56
61948	BEARING 1" PKG OF 2	PKG	64	8.80
61949	BEARING 5/8" PKG OF 2	PKG	64	6.89
61950	BEARING 3/4" PKG OF 2	PKG	64	6.96
61951	BEARING 1" PKG OF 2	PKG	64	6.96
61952	BEARING 1" PKG OF 2	PKG	64	12.08
61953	BEARING 3/4" PKG OF 2	PKG	63	9.83
61954	37 2230 01 BRKT	EA	64	28.39
61955	BEARING 1" PKG OF 2	PKG	64	32.51
61956	SHAFT 5/8"	EA	64	6.16
61957	SHAFT 3/4"	EA	64	6.32
61958	SHAFT 1"	EA	64	11.03
61962	38 2491 01 SPACER	EA	64	2.09
61963	SPACER 3/4" PKG OF 12	PKG	64	2.42
61964	38 2491 03 SPACER	EA	64	2.68
61967	5/8" TRUST COLLAR	EA	64	3.41
61968	3/4" TRUST COLLAR	EA	64	2.95
61969	1" TRUST COLLAR	EA	64	4.10
61970	DRIER 1/2SAE	EA	33	9.60
61971	DRIER 3/8SAE	EA	33	31.41
61972	DRIER 1/4IDX3/8OD SOLDER	EA	33	9.42
61973	DRIER 1/2IDX5/8OD SOLDER	EA	33	9.60
61974	DRIER 1/4IDX3/8OD SOLDER	EA	33	12.28
61975	DRIER 1/2IDX5/5OD SOLDER	EA	33	13.38
61976	165S SOLDER CON LIQ LINE DRY	EA	33	11.19
61977	DRIER 3/8IDX1/2OD SOLDER	EA	33	22.70
61979	DRIER 7/8IDX1OD SOLDER	EA	33	31.41
61980	DRIER 1 1/8IDX1 1/4OD SOLDER	EA	33	52.13
62000	AE1336A F12 COMPRSR 115/60/1	EA	1	77.47
62020	AE3414A F12 COMPRSR 115/60/1	EA	1	79.92
62021	AE1343A F12 COMPRSR 115/60/1	EA	1	81.14
62030	AE1360A F12 COMPRSR 115/60/1	EA	1	81.93
62031	AE3417A F12 COMPRSR 115/60/1	EA	1	82.04
62032	AE3425A F12 COMPRSR 115/60/1	EA	1	83.94
62052	AE1380D F12 COMPRSR 115/60/1	EA	1	84.49
62054	AE1411E F22 COMPRSR 115/60/1	EA	1	96.42
62055	AE2410A F12 COMPRSR 115/60/1	EA	1	107.89
62056	AE4430A F12 COMPRSR 115/60/1	EA	1	94.86
62058	AE3430A F12 COMPRSR 115/60/1	EA	1	88.05
62059	AE1410A F12 COMPRSR 115/60/1	EA	1	85.61
62082	AE1415E F22 COMPRSR 115/60/1	EA	1	108.90
62084	AJ2416A F12 COMPRSR 115/60/1	EA	1	186.97
62086	AE2413A F12 COMPRSR 115/60/1	EA	1	110.69
62087	AE2415A F12 COMPRSR 115/60/1	EA	1	110.69
62088	AE4440A F12 COMPRSR 115/60/1	EA	1	99.20
62089	AE1413A F12 COMPRSR 115/60/1	EA	1	87.17
62090	AE4448A F12 COMPRSR 115/60/1	EA	1	105.22
62091	AE4440A F12 COMPRSR 115/60/1	EA	1	95.86
62110	AJ4461A F12 COMPRSR 115/60/1	EA	1	165.42
62111	AJ1420E F22 COMPRSR 230/60/1	EA	1	169.21
62112	AJ4461A F12 230/60/1	EA	1	168.53
62113	AJ2425A F12 COMPRSR 230/60/1	EA	1	175.00
62114	AJ2425A F12 COMPRSR 230/60/1	EA	1	167.31
62117	AJ7441A F12 COMPRSR 115/60/1	EA	1	159.51
62118	AJ7441A F12 COMPRSR 230/60/1	EA	1	167.31
62119	AE5460E F22 COMPRSR 115/60/1	EA	2	101.88
62120	AK9434A F12 COMPRSR 115/60/1	EA	1	146.91
62121	AK9434A F12 COMPRSR 230/60/1	EA	1	148.25
62122	AK9441A F12 COMPRSR 115/60/1	EA	1	148.25
62123	AK9441A F12 COMPRSR 230/60/1	EA	1	149.26
62153	AJ7465A F12 COMPRSR 115/60/1	EA	1	193.28
62154	AJ7465B F12 COMPRSR 230/60/1	EA	1	179.01
62155	AJ4492A F12 COMPRSR 115/60/1	EA	1	174.88
62156	AJ4492A F12 COMPRSR 230/60/1	EA	1	176.55
62163	AH2435A F12 COMPRSR 230/60/4	EA	1	253.58
62164	AK5470E F22 COMPRSR 115/60/1	EA	2	117.37
62165	AK5483E F22 COMPRSR 115/60/1	EA	2	119.94
62166	AK5483E F22 COMPRSR 230/60/1	EA	2	119.49
62196	AJ4512A F12 COMPRSR 230/60/1	EA	2	222.82
62203	AH7480A F12 COMPRSR 230/60/1	EA	2	253.58
62204	AH2445A F12 COMPRSR 230/60/1	EA	2	276.76
62205	AH7480A F12 COMPRSR 230/60/1	EA	3	274.47
62206	AH2445A F12 COMPRSR 230/60/3	EA	3	292.25
62207	AK5510E F22 COMPRSR 115/60/1	EA	2	123.39
62208	AK5510E F22 COMPRSR 230/60/1	EA	2	125.06
62209	AK5511E F22 COMPRSR 115/60/1	EA	2	125.95
62210	AK5512E F22 COMPRSR 230/60/1	EA	2	125.40
62211	AK5510E F22 COMPRSR 265/60/1	EA	2	124.39
62212	AK5512E F22 COMPRSR 265/60/1	EA	2	124.84
62233	AJ5515F F22 COMPRSR 230/60/1	EA	3	152.15
62234	AJ5515F F22 COMPRSR 265/60/1	EA	3	157.95
62242	AH4518A F12 COMPRSR 230/60/1	EA	2	267.51
62246	AH7511B F12 COMPRSR 230/60/1	EA	2	293.37
62247	AH4518A F12 COMPRSR 230/60/3	EA	3	290.26
62248	AH7511A F12 COMPRSR 230/60/3	EA	3	281.68
62249	AH2466A F12 COMPRSR 230/60/1	EA	2	283.90
62250	AJ5517E F22 COMPRSR 230/60/1	EA	3	155.94
62251	AH2466A F12 COMPRSR 230/60/1	EA	3	305.97
62272	AJ5519G F22 COMPRSR 230/60/1	EA	3	168.87
62274	AB5519G F22 COMPRSR 230/60/1	EA	3	182.69
62275	AJ5518E F22 COMPRSR 265/60/1	EA	3	166.19
62276	AH2480J F502 COMPRSR 230/60/1	EA	2	330.36
62285	AH4525A F12 COMPRSR 230/60/1	EA	2	270.64
62286	AH5524E F22 COMPRSR 230/60/3	EA	3	266.85
62290	AH5524E F22 COMPRSR 230/60/1	EA	3	218.47
62291	AH4525A F12 COMPRSR 230/60/3	EA	3	294.27
62292	AH7514A F12 COMPRSR 230/60/3	EA	3	281.79
62293	AH2511K F502 COMPRSR 230/60/3	EA	3	345.43
62294	AH7514A F12 COMPRSR 230/60/1	EA	2	292.38
62295	AH2511K F502 COMPRSR 230/60/1	EA	2	365.15
62296	AB5524G F22 COMPRSR 230/60/1	EA	3	192.84
62319	AB5530G F22 COMPRSR 230/60/1	EA	3	232.46
62326	AH5531E F22 COMPRSR 230/60/3	EA	3	274.66
62327	AH5527E F22 COMPRSR 230/60/1	EA	3	225.60
62328	AH5531E F12 COMPRSR 230/60/1	EA	3	225.94
62329	AB5528G F22 COMPRSR 230/60/1	EA	3	201.98
62336	AH5540E F22 COMPRSR 230/60/3	EA	3	279.78
62337	AH5540E F22 COMPRSR 230/60/1	EA	3	234.74
62338	AH5540E F22 COMPRSR 460/60/3	EA	3	285.02
62339	AH7524J F502 COMPRSR 230/60/1	EA	2	330.50
62340	AH7524J F502 COMPRSR 230/60/1	EA	3	310.66
62341	AG4534A F12 COMPRSR 230/60/1	EA	2	391.13
62342	AG4534A F12 COMPRSR 230/60/3	EA	3	342.76

PART	DESCRIPTION	UOM	PAGE	PRICE
62362	AG5546E F22 COMPRSR 230/60/1	EA	3	300.05
62363	AG5546E F22 COMPRSR 230/60/3	EA	3	337.29
62385	AG5553E F22 COMPRSR 230/60/1	EA	3	338.63
62386	AG5553E F22 COMPRSR 230/60/1	EA	3	353.68
62387	AG5553F F22 COMPRSR 460/60/3	EA	3	361.26
62388	AG4543A F12 COMPRSR 230/60/1	EA	2	410.31
62389	AG4543A F12 COMPRSR 230/60/3	EA	3	366.94
62414	AG5561E F22 COMPRSR 230/60/1	EA	3	366.50
62415	AG5561E F22 COMPRSR 230/60/3	EA	3	378.09
62416	AG5561F F22 COMPRSR 460/60/3	EA	3	380.32
62430	AG5568E F22 COMPRSR 230/60/1	EA	3	389.91
62431	AG5568E F22 COMPRSR 230/60/3	EA	3	399.82
62432	AG5568F F22 COMPRSR 460/60/3	EA	3	401.28
62500	AE1336AA F12 UNIT 115/60/1	EA	6	138.66
62520	AE3414AA F12 UNIT 115/60/1	EA	6	137.88
62521	AE1343AA F12 UNIT 115/60/1	EA	6	145.58
62530	AE3417AA F12 UNIT 115/60/1	EA	6	145.90
62531	AE1360AA F12 UNIT 115/60/1	EA	6	147.36
62532	AE3425AA F12 UNIT 115/60/1	EA	6	148.92
62551	AE4430AA F12 UNIT 115/60/1	EA	6	164.07
62553	AE4430AB F12 UNIT 115/60/1	EA	6	171.65
62554	AE2410AC F12 UNIT 115/60/1	EA	7	209.77
62555	AE4430AC F12 UNIT 115/60/1	EA	6	202.53
62582	AE4440AL F12 UNIT 115/60/1	EA	6	193.73
62583	AE4440AB F12 UNIT 115/60/1	EA	6	185.82
62584	AE2415AC F12 UNIT 115/60/1	EA	7	244.73
62585	AE4440AC F12 UNIT 115/60/1	EA	6	218.80
62586	AE4448AC F12 UNIT 115/60/1	EA	6	238.64
62610	AJ4461AB F12 UNIT 115/60/1	EA	6	259.93
62612	AJ4461AC F12 UNIT 230/60/1	EA	6	278.00
62614	AJ2425AB F12 UNIT 230/60/1	EA	7	268.86
62615	AJ2425AC F12 UNIT 230/60/1	EA	7	284.46
62616	AJ2425AC F12 UNIT 230/60/1	EA	7	277.76
62620	AJ4461AC F12 UNIT 115/60/1	EA	6	277.55
62622	AJ7441AC F12 UNIT 115/60/1	EA	7	267.19
62623	AJ7441AC F12 UNIT 230/60/1	EA	7	273.09
62626	AJ7441AW F12 UNIT 115/60/1	EA	7	353.12
62627	AJ7441AW F12 UNIT 230/60/1	EA	7	354.57
62650	AJ7465AC F12 UNIT 115/60/1	EA	7	352.67
62651	AJ7465BC F12 UNIT 230/60/1	EA	7	359.37
62652	AJ4492AC F12 UNIT 115/60/1	EA	8	316.33
62653	AJ4492AC F12 UNIT 230/60/1	EA	8	319.90
62657	AJ7465AW F12 UNIT 115/60/1	EA	7	401.04
62658	AJ7465BW F12 UNIT 230/60/1	EA	7	381.33
62659	AH2435AC F12 UNIT 230/60/1	EA	7	410.07
62660	AH2435AW F12 UNIT 230/60/1	EA	8	503.82
62690	AJ4512AC F12 UNIT 230/60/1	EA	8	372.40
62691	AH7480AC F12 UNIT 230/60/1	EA	7	411.98
62693	AH7480AC F12 UNIT 230/60/3	EA	7	469.60
62696	AH2445AC F12 UNIT 230/60/1	EA	7	422.00
62697	AH2445AC F12 UNIT 230/60/3	EA	7	475.50
62730	AH4518AC F12 UNIT 230/60/1	EA	8	559.10
62736	AH4518AC F12 UNIT 230/60/3	EA	8	606.59
62782	AH4525AC F12 UNIT 230/60/1	EA	8	706.35
62784	AH4525AC F12 UNIT 230/60/3	EA	8	753.72
62839	AG4534AM F12 UNIT 230/60/1	EA	8	895.17
62840	AG4534AM F12 UNIT 230/60/3	EA	8	877.01
63200	AE1336A F12 COMPRSR 240/50/1	EA	100	70.67
63201	AE1360A F12 COMPRSR 240/50/1	EA	100	75.36
63202	AE1380A 240-50 AE150KT-200-E3	EA	100	80.98
63203	AE4440A F12 COMPRSR 240/50/1	EA	100	94.00
63204	AJ4461A F12 COMPRSR 240/50/1	EA	100	153.34
63205	AJ5515F F22 COMPRSR 240/50/1	EA	100	153.29
63206	AJ5517E F22 COMPRSR 240/50/1	EA	100	158.68
63207	AJ5519E F22 COMPRSR 240/50/1	EA	100	162.62
63209	AH5524E F22 COMPRSR 240/50/1	EA	100	215.42
63210	AH5527E F22 COMPRSR 240/50/1	EA	100	212.86
63211	AH5531E F22 COMPRSR 240/50/1	EA	100	225.82
63212	AB5522G F22 COMPRSR 240/50/1	EA	100	171.15
63213	AB5524G 240-50 AB225JT-014 CSR	EA	100	175.27
63215	AE1343A F12 COMPRSR 240/50/1	EA	100	74.93
63216	AK5512E F22 COMPRSR 240/50/1	EA	100	120.60
64400	GAL HD LIQ DETERGENT	EA	73	12.55
64401	5 GALS HD LIQ DETERGENT	EA	73	60.31
64404	5 GALS MICROMET PLATES	EA	64	30.03
64408	3 LBS MICROMET CRYSTALS	EA	64	14.08
64409	8 LBS MICROMET CRYSTALS	EA	64	34.31
64410	20 LBS MICROMET CRYSTALS	EA	64	84.42
64413	FEEDING BAG FOR MICROMET	EA	64	3.40
64414	8OZ MICROMET CRYSTALS	EA	64	4.40
64415	1 GAL ALGAECIDE #85	EA	65	49.50
64417	THERMO TRAP HEAT ABSORBER	EA	73	5.24
64422	MICROMET FEEDER	EA	64	42.97
64424	LIQUID DRIP FEEDER	EA	64	17.53
64425	PT ICE MACH CLR NKL SAFE	EA	65	5.05
64426	GAL ICE MACH CLR NKL SAFE	EA	65	32.06
64436	47720 300P SPRAYER	EA	72	56.36
64607	1/8" X 2" X 30' INSUL PIPE WRA	EA	52	6.41
64610	INSULATION 3/8ID X3/8 6FT LNG	LGT	52	1.23
64611	INSULATION 1/2ID X 3/8-6'LNGTH	LGT	52	1.34
64612	INSULATION 5/8ID X 3/8-6'LNGTH	LGT	52	1.56
64613	INSULATION 3/4ID X 3/8-6'LNGTH	LGT	52	1.66
64614	INSULATION 7/8ID X 3/8-6'LNGTH	LGT	52	1.74
64616	INSULATION 1 1/8ID X 3/8-6'LNG	LGT	52	2.01
64617	INSULATION 1 3/8ID X 3/8-6'LNG	LGT	52	2.26
64618	INSULATION 1 5/8ID X 3/8-6'LNG	LGT	52	2.76
64619	INSULATION 2 1/8ID X 3/8-6'LNG	LGT	52	3.54
64623	INSULATION 3/4IPS X 3/8-6'LNGH	LGT	52	1.94
64625	INSULATION 1 1/2IPS X 3/8-6'LN	LGT	52	3.10
64626	INSULATION 2IPS X 3/8-6'LENGTH	LGT	52	3.76
64630	INSULATION 3/8ID X 1/2-6'LNGTH	LGT	52	1.92
64631	INSULATION 1/2ID X 1/2-6'LNGTH	LGT	52	2.06
64632	INSULATION 5/8ID X 1/2-6'LNGTH	LGT	52	2.29
64633	INSULATION 3/4ID X 1/2-6'LNGTH	LGT	52	2.40
64634	INSULATION 7/8ID X 1/2-6'LNGTH	LGT	52	2.57
64636	INSULATION 1 1/8ID X 1/2-6'LNG	LGT	52	2.92
64637	INSULATION 1 3/8ID X 1/2-6'LNG	LGT	52	3.23
64638	INSULATION 1 5/8ID X 1/2-6'LNG	LGT	52	3.78
64639	INSULATION 2 1/8ID X 1/2-6'LNG	LGT	52	4.96
64640	INSULATION 2 5/8ID X 1/2-6'LNG	LGT	52	6.05
64641	INSULATION 3 1/8ID X 1/2-6'LNG	LGT	52	7.64
64645	INSULATION 1 1/2IPS X 1/2-6'LN	LGT	52	4.50
64646	INSULATION 2IPS X 1/2-6'LENGTH	LGT	52	5.34
64647	INSULATION 2 1/2IPS X 1/2-6'LN	LGT	52	7.03
64648	INSULATION 3IPS X 1/2-6'LNGTH	LGT	52	8.99
64650	INSULATION 3/8ID X 3/4-6'LNGTH	LGT	52	2.85
64651	INSULATION 1/2ID X 3/4-6'LNGTH	LGT	52	3.07
64652	INSULATION 5/8ID X 3/4-6'LNGTH	LGT	52	3.55
64653	INSULATION 3/4ID X 3/4-6'LNGTH	LGT	52	3.83
64654	INSULATION 7/8ID X 3/4-6'LNGTH	LGT	52	4.28
64656	INSULATION 1 1/8ID X 3/4-6'LNG	LGT	52	5.12
64657	INSULATION 1 3/8ID X 3/4-6'LNG	LGT	52	5.92
64658	INSULATION 1 5/8ID X 3/4-6'LNG	LGT	52	7.99
64659	INSULATION 2 1/8ID X 3/4-6'LNG	LGT	52	10.30
64663	INSULATION 3/4IPS X 3/4-6'LNGH	LGT	52	5.04
64665	INSULATION 1 1/2IPS X 3/4-6'LG	LGT	52	9.16
64666	INSULATION 2IPS X 3/4-6'LNGTH	LGT	52	10.84
64680	BRUSH TOP ASHESIVE 1/2 PINT	EA	52	3.53
64681	BRUSH TOP ADHESIVE 1 PINT	EA	52	4.43
64682	ADHESIVE 1 QUART	EA	52	5.98
64683	ADHESIVE 1 GALLON	EA	52	20.79
64686	1 1/2" X 60YD BLACK INS TAPE	EA	52	7.17
64691	INSULATION SHEET 3/8"-36 X 48"	EA	52	11.09
64692	INSULATION SHEET 1/2" 36 X 48"	EA	52	13.74
64693	INSULATION SHEET 3/4" 36 X 48"	EA	52	19.44
64700	115V BLWR COIL	EA	21	184.90
64701	115V BLWR COIL	EA	21	205.16
64702	115V BLWR COIL	EA	21	268.70
64703	115V BLWR COIL	EA	21	324.01
64704	115V BLWR COIL	EA	21	380.59
64705	115V BLWR COIL	EA	21	456.62
64706	115V BLWR COIL	EA	21	606.10
64707	115V BLWR COIL	EA	21	688.05
64708	115V BLWR COIL	EA	21	873.07
64709	115V BLWR COIL	EA	21	188.07
64710	115V BLWR COIL	EA	21	233.28
64711	115V BLWR COIL	EA	21	280.64
64712	115V BLWR COIL	EA	21	342.58
64713	115V BLWR COIL	EA	21	384.06
64714	115V BLWR COIL	EA	21	483.41
64715	115V BLWR COIL	EA	21	623.00
64730	115V BLWR COIL	EA	21	161.38
64731	115V BLWR COIL	EA	21	197.42
64732	115V BLWR COIL	EA	21	221.01
64733	115V BLWR COIL	EA	21	268.27
64734	115V BLWR COIL	EA	21	289.82
64741	115V RSPR COIL	EA	20	104.98
64742	115V RSPR COIL	EA	20	123.43
64743	115V RSPR COIL	EA	20	143.86
64745	115V BLWR COIL	EA	21	147.20
64746	115V BLWR COIL	EA	21	195.70
64747	115V BLWR COIL	EA	21	238.52
64748	115V BLWR COIL	EA	21	263.52
64749	115V BLWR COIL	EA	21	314.42
64761	115V RSPR COIL	EA	21	127.44
64762	115V RSPR COIL	EA	21	146.78
64763	115V RSPR COIL	EA	21	161.14
64764	115V RSPR COIL	EA	21	183.48
64770	115V DRPNRP	EA	21	155.52
64771	115V DRPNRP COIL	EA	21	166.38
64772	115V DRPNRP COIL	EA	21	191.38
64773	115V DRPNRP COIL	EA	21	225.18
64774	115V DRPNRP COIL	EA	21	282.53
64775	115V DRPNRP COIL	EA	21	285.65
64787	230V BLWR COIL	EA	21	297.22
64788	230V BLWR COIL	EA	21	330.68
64789	230V BLR COIL	EA	21	402.19
64790	230V BLR COIL	EA	21	453.28
64791	230V BLR COIL	EA	21	580.61
64798	230V BLR COIL	EA	21	362.88
64799	230V BLR COIL	EA	21	459.95
64800	230V BLR COIL	EA	21	609.98
64808	230V CONDENSER	EA	21	442.37
64809	230V CONDENSER	EA	21	575.46
64821	2 WIRE SAFETY SWITCH	EA	21	12.93
64822	3 WIRE SAFETY SWITCH	EA	21	14.69
64823	43 WATT 115V 102249-03 MOTOR	EA	21	17.51
64824	FAN BLADE FOR 64823	EA	21	4.75
64825	115V MOTOR	EA	21	38.36
64826	FAN BLADE FOR 64825	EA	21	4.32
65140	HEATER 1KW 240V-8WX6H DUCT	EA	51	135.14
65141	HEATER 1.5KW 240V-10WX8H DUCT	EA	51	135.14
65142	HEATER 2.8KW 240V-10WX8H	EA	51	139.73
65143	HEATER 5KW 240V-14WX10H DUCT	EA	51	142.35
65144	HEATER 5KW 240V-14WX10H DUCT	EA	51	142.35
65145	HEATER 7.5KW 240V-20WX8H DUCT	EA	51	154.82
65147	HEATER 7.5KW 240V-14WX10H DUCT	EA	51	154.82
65148	HEATER 9.5KW 240V-16WX8H DUCT	EA	51	175.15
65149	HEATER 9.5KW 240V-20WX8H DUCT	EA	51	175.15
65151	HEATER 9.5KW 240V-14WX10H DUCT	EA	51	175.15
65152	HEATER 9.5KW 240V-18WX12H DUCT	EA	51	175.15
65153	HEATER 11.5KW 240V-20WX8H DUCT	EA	51	175.15
65154	HEATER 11.5KW 240V-24WX8H DUCT	EA	51	175.15
65155	HEATER 11.5KW 240V-14WX10H DUC	EA	51	175.15
65156	HEATER 11.5KW 240V-18WX12H DUC	EA	51	175.15
65158	HEATER 15KW 240V-20WX8H DUCT	EA	51	220.42
65159	HEATER 15KW 240V-24WX8H DUCT	EA	51	220.42
65160	HEATER 15KW 240V-14WX10H DUCT	EA	51	220.42
65161	HEATER 15KW 240V-18WX12H DUCT	EA	51	220.42
65162	HEATER 15KW 240V-22WX12H DUCT	EA	51	220.42
65163	HEATER 5KW 240-3PH 16WX8H DUCT	EA	51	167.94
65164	HETER 10KW 240-3PH 20WX8H DUCT	EA	51	167.94
65165	HEATER 10KW 240-3PH 24WX8H DUC	EA	51	167.94
65166	HEATER 10KW 240-3PH 27WX8H DUC	EA	51	167.94
65167	HEATER 10KW 240-3PH 18WX12H DU	EA	51	167.94
65168	HTR 11.5KW 240-3PH 18WX12H DUC	EA	51	171.22
65169	DB2908 15KW 240V 3PH	EA	51	199.42
65170	HTR 15KW 240-3PH 27WX8H DUCT	EA	51	199.42
65171	HTR 15KW 240-3PH 18WX12H DUCT	EA	51	199.42
65174	HTR 5KW 480-3PH 16WX8H DUCT	EA	51	176.46

PART	DESCRIPTION	UOM	PAGE	PRICE
65175	HTR 10KW 480-3PH 20WX8H DUCT	EA	51	176.46
65176	HTR 15KW 480-3PH 18WX12H DUCT	EA	51	176.46
65177	HTR 20KW 480-3PH 18WX12H DUCT	EA	51	181.71
65200	VOLUME-AIRE CFM	EA	85	149.31
65205	DIGITAL POWER HTR	EA	85	178.24
65207	TEMP PROBE FOR 65205	EA	85	24.85
65223	TIF 443 REFERENCE LEAK	EA	85	2.28
65231	HTR 19.5KW 240-3PH 18WX12H DUC	EA	51	199.42
65241	TIF 441 SENSING TIP	EA	85	5.97
65242	TIF 442 COVERS (PKG OF 3)	PKG	85	1.94
65243	TIF 445 FILTERS (PKG OF 12)	PKG	85	1.49
65244	TIF 444 MAINTENANCE KIT	EA	85	10.96
65245	TIF 446 EAR PHONE	EA	85	2.94
65248	AC VOLTAGE TRACER	EA	87	49.74
65249	CAPACITOR TESTER	EA	14	29.82
65250	CRANKCASE HTR 240V 54 WATT	EA	13	10.37
65251	CRANKCASE HTR 240V 60 WATT	EA	13	10.37
65252	CRANKCASE HTR 240V 45 WATT	EA	13	10.37
65253	CRANKCASE HTR 480V 54 WATT	EA	13	9.60
65256	ELECTRONIC SIGHT GLASS	EA	85	189.14
65257	CHARGING METER	EA	91	198.15
65260	AC TRACER	EA	87	49.74
65261	COMBUSTIBLE GAS DETCR	EA	84	189.14
65262	TIF1250 POWRPROBE	EA	85	93.22
65263	TIF1251 FIXED PRB	EA	85	2.63
65264	TIF1252 FUSED PRB	EA	85	4.20
65265	TIF1204 CLIP PRB	EA	85	3.15
65266	TIF1256 FLEX PRB	EA	85	5.23
65267	TIF1205 FUSE	EA	85	.42
65271	TIF 5500 ACR LEAK DETECTOR	EA	85	159.27
65272	TIF 541 SENSING TIP	EA	85	6.23
65273	TIF542 BOOT	EA	85	.65
65274	TIF545 FILTERS 12	EA	85	1.48
65276	TIF544 MAINT KIT	EA	85	12.44
65277	POWER PROBE	EA	87	188.20
65278	TIF 8000 HERMETIC ANALYZER	EA	87	148.37
65285	TIF 100DC	EA	87	188.20
65287	TIF7000AC	EA	87	188.20
65288	TIF 240	EA	85	50.00
65289	TIF 245	EA	85	23.91
65291	TIF 244	EA	85	39.67
65292	TIF IT990	EA	85	197.91
65293	TIF 770	EA	85	174.27
65294	TIF 7002	EA	87	49.74
65295	TIF 7003	EA	87	49.74
65296	TIF 200	EA	85	94.55
65310	6HS STAINLESS STEEL HOSE CLAMP	EA	53	.42
65311	8HS STAINLESS STEEL HOSE CLAMP	EA	53	.42
65312	10HSSTAINLESS STEEL HOSE CLAMP	EA	53	.42
65313	12HSSTAINLESS STEEL HOSE CLAMP	EA	53	.43
65314	16HSSTAINLESS STEEL HOSE CLAMP	EA	53	.43
65315	20HSSTAINLESS STEEL HOSE CLAMP	EA	53	.44
65316	24HSSTAINLESS STEEL HOSE CLAMP	EA	53	.44
65317	28HSSTAINLESS STEEL HOSE CLAMP	EA	53	.44
65318	32HSSTAINLESS STEEL HOSE CLAMP	EA	53	.44
65319	36HSSTAINLESS STEEL HOSE CLAMP	EA	53	.46
65320	40HSSTAINLESS STEEL HOSE CLAMP	EA	53	.50
65328	72HSSTAINLESS STEEL HOSE CLAMP	EA	53	.67
65329	88HSSTAINLESS STEEL HOSE CLAMP	EA	53	.76
65340	PYROMETER W/2 PROBE	EA	93	240.35
65341	AIR PROBE FOR 65340	EA	93	54.88
65342	NEEDLE PROBE FOR 65340	EA	93	33.18
65343	REL HUM PROBE USE W/65340	EA	93	104.47
65344	CARRYING CASE FOR 65340	EA	93	12.54
65345	SUPER HEAT PYROMETER	EA	93	142.62
65346	PROBE FOR 65345	EA	93	22.99
65347	25 FT EXT CORD	EA	93	29.53
65349	616 PRYOMETER SET	EA	93	104.47
65350	REPL PROBE FOR 65349	EA	93	49.12
65351	1160 3FT HI-TEMP DISPL PROBE	EA	93	4.87
65400	STRIP HEATER 120V 125 WATT	EA	50	22.74
65407	OT2475 120V 1P 750W STRIP HTR	EA	50	32.46
65503	STRIP HEATER 240V 250 WATT	EA	50	26.22
65505	STRIP HEATER 240V 500 WATT	EA	50	29.34
65506	STRIP HEATER 240V 500 WATT	EA	50	30.48
66020	GAUGE 0-30 LBS 4.5" DIA	EA	84	39.92
66021	GAUGE 0-60 LBS 4.5" DIA	EA	84	39.92
66022	GAUGE 0-100 LBS 4.5" DIA	EA	84	39.92
66023	GAUGE 0-160 LBS 4.5" DIA	EA	84	39.92
66024	GAUGE 0-200 LBS 4.5" DIA	EA	84	39.92
66025	GAUGE 0-300 LBS 4.5" DIA	EA	84	39.92
66026	GAUGE 0-400 LBS 4.5" DIA	EA	84	39.92
66027	GAUGE 0-600 LBS 4.5" DIA	EA	84	39.92
67400	CU-5-1 COPPER TUBE HEATER	EA	50	38.87
67401	CU-10-1 COPPER TUBE HEATER	EA	50	44.88
67402	CU-15-1 COPPER TUBE HEATER	EA	50	50.86
67403	CU20-1 COPPER TUBE HEATER	EA	50	56.83
67404	CU5-2 DISC BY MFG	EA	50	37.56
67405	DISC BY MFG NO SUB	EA	50	1.84
67406	CU15-2 DISC BY MFG	EA	50	48.13
67407	CU20-2 DISC BY MFG	EA	50	54.91
67408	CTU-5-1 COPPER TUBE HEATER	EA	50	41.52
67409	CTU-10-1 COPPER TUBE HEATER	EA	50	49.03
67410	CTU-15-1 COPPER TUBE HEATER	EA	50	56.54
67411	CTU-20-1 COPPER TUBE HEATER	EA	50	64.07
67412	CTU-5-2 COPPER TUBE HEATER	EA	50	40.11
67413	CTU10-2 DISC BY MFG	EA	50	47.38
67414	CTU15-2 DISC BY MFG	EA	50	54.63
67415	CTU20-2 DISC BY MFG	EA	50	61.90
70200	5" DL BIMETL THRMOMTR -40-120F	EA	55	47.96
70201	5" DL BIMETL THRMOMTR 0-220F	EA	55	47.96
70202	5" DL BIMETL THRMOMTR 20-240F	EA	55	47.96
70203	5" DL BIMETL THRMOMTR 50-500F	EA	55	47.96
70204	5" DL BIMETL THRMOMTR 150-750F	EA	55	47.96
70205	5" DL BIMETAL THER 200-1000F	EA	55	47.96
70206	5" DL BIMETL THRMOMTR 0-200F	EA	55	47.96
70207	5" DL BIMETL THRMOMTR 20-240F	EA	55	47.96
70208	5" DL BIMETL THRMOMTR 50-500F	EA	55	47.96
70209	5" DL BIMETL THRMOMTR 150-750F	EA	55	47.96
70210	5" DL BIMETL THRMOMTR 200-1000	EA	55	47.96
70211	2" DIAL BIMETAL THER -40-120F	EA	55	15.99
70212	2" DIAL BIMETAL THER 20-240F	EA	55	15.99
70213	2" DIAL BIMETAL THER 40-140F	EA	55	15.99
70214	2" DIAL BIMETAL THER 50-300F	EA	55	15.99
70215	2" DIAL BIMETAL THER 50-500F	EA	55	15.99
70216	2" DIAL BIMETAL THER 60-220F	EA	55	15.99
70217	2" DIAL BIMETAL THER 20-240F	EA	55	17.03
70218	2" DIAL BIMETAL THER 40-140F	EA	55	17.03
70219	2" DIAL BIMETAL THER 50-300F	EA	55	17.03
70220	2" DIAL BIMETAL THER 50-500F	EA	55	17.03
70221	2 1/2" DL BIMETAL THER -40-120	EA	55	20.16
70222	2 1/2" DL BIMETAL THER 20-240F	EA	55	20.16
70223	2 1/2" DL BIMETAL THER 40-140F	EA	55	20.16
70224	2 1/2" DL BIMETAL THER 50-300F	EA	55	20.16
70225	2 1/2" DL BIMETAL THER 50-400F	EA	55	20.16
70226	2 1/2" DL BIMETAL THER 50-500F	EA	55	20.16
70227	2 1/2" DL BIMETAL THER 20-240F	EA	55	20.16
70228	2 1/2" DL BIMETAL THER 50-300F	EA	55	20.16
70229	2 1/2" DL BIMETAL THER 50-500F	EA	55	20.16
70230	3 1/2" DL BIMETAL THER -40-120	EA	55	20.85
70231	3 1/2" DL BIMETL THER 20-240F	EA	55	20.85
70232	3 1/2" DL BIMETAL THER 40-140F	EA	55	20.85
70233	3 1/2" DL BIMETAL THER 50-300F	EA	55	20.85
70234	3 1/2" DL BIMETAL THER 50-400F	EA	55	20.85
70235	3 1/2" DL BIMETAL THER 50-500F	EA	55	20.85
70236	3 1/2" DL BIMETAL THER -40-120	EA	55	21.55
70238	3 1/2" DL BIMETAL THER 20-240F	EA	55	21.55
70239	3 1/2" DL BIMETAL THER 50-300F	EA	55	21.55
70240	3 1/2" DL BIMETAL THER 50-400F	EA	55	21.55
70241	3 1/2" DL BIMETAL THER 50-500F	EA	55	21.55
70242	2 1/2" DL BIMETL THER -40-120F	EA	55	27.80
70243	2 1/2" DL BIMETAL THER 0-600F	EA	55	27.80
70244	2 1/2" DL BIMETAL THER 20-240F	EA	55	27.80
70245	2 1/2" DL BIMETAL THER 50-500F	EA	55	27.80
70246	2 1/2" DL BIMETL THER 200-1000	EA	55	27.80
70247	2 1/2" DL BIMETL THER -40-120F	EA	55	29.19
70248	2 1/2" DL BIMETAL THER 50-500F	EA	55	29.19
70249	3 1/2" DL BIMETAL THER -40-120	EA	55	20.85
70250	3 1/2" DL BIMETAL THER 0-600F	EA	55	20.85
70251	3 1/2" DL BIMETAL THER 20-240	EA	55	20.85
70252	3 1/2" DL BIMETAL THER 50-300F	EA	55	20.85
70253	3 1/2" DL BIMETAL THER 50-500F	EA	55	20.85
70254	3 1/2" DL BIMETAL THER 150-750	EA	55	20.85
70255	3 1/2" DL BIMETL THER 200-1000	EA	55	20.85
70256	3 1/2" DL BIMETAL THER 0-600F	EA	55	20.85
70257	3 1/2" DL BIMETAL THER 20-240F	EA	55	20.85
70258	3 1/2" DL BIMETAL THER 50-300F	EA	55	20.85
70259	3 1/2" DL BIMETAL THER 50-500F	EA	55	20.85
70260	3 1/2" DL BIMETL THER 200-1000	EA	55	20.85
70261	5" DL BIMETL THRMOMTR -40-120F	EA	55	47.96
70262	5" DL BIMETL THRMOMTR 0-200F	EA	55	47.96
70263	5" DL BIMETL THRMOMTR 20-240F	EA	55	47.96
70264	5" DL BIMETAL THER 50-300F	EA	55	47.96
70265	5" DL BIMETAL THER 50-400F	EA	55	47.96
70266	5" DL BIMETAL THER 200-1000F	EA	55	47.96
70267	5" DL BIMETAL THER -40-120F	EA	55	47.96
70268	5" DL BIMETAL THER 0-200F	EA	55	47.96
70269	5" DL BIMETAL THER 20-240F	EA	55	47.96
70270	5" DL BIMETAL THER 50-400F	EA	55	47.96
70271	5" DL BIMETAL THER 50-500F	EA	55	47.96
70272	5" DL BIMETAL THER 200-1000F	EA	55	47.96
70273	4" THERMOWELL	EA	55	47.96
70274	6" THEROWELL	EA	55	47.96
70275	STEM THERM -40T0110F--04T040C	EA	55	42.03
70276	BOTTOM CONNECT STEM THERM20-12	EA	55	42.03
70277	BTTM CNT STEM THERM 30-240F	EA	55	42.03
70278	BTM CNT STEM THERM 50-400F	EA	55	42.03
70279	BACK CONNECT STEM THERM	EA	55	42.03
70280	BACK CONNECT STEM THERM20-120F	EA	55	42.03
70281	BACK CNT STEM THERM 30-240F	EA	55	42.03
70282	BCK CNT STEM THERM 50-400F	EA	55	42.03
70283	SOCKET BRASS W/INTERNAL THREAD	EA	55	7.30
70313	L4064B1451 FUR CT	EA	30	21.86
70354	T42B1027	EA	29	85.87
70364	Q340A1090 COUPLE	EA	37	3.12
70365	Q340A1108 COUPLE	EA	37	4.37
70402	THERMOSTAT	EA	29	16.62
70411	L6006A1145 AQUAST	EA	29	42.99
70412	AQUASTAT	EA	29	49.28
70413	121371A WELL ONLY	EA	29	8.37
70414	121371B WELL ONLY	EA	29	6.54
70422	COMB FAN-LIMIT CTRL	EA	28	22.58
70423	COMB FAN-LIMIT CTRL	EA	28	23.25
70424	LIMIT CONTROL	EA	28	16.94
70431	THERMOCOUPLE 24"	EA	37	3.69
70432	THERMOCOUPLE 72"	EA	37	5.48
70437	SUB BASE	EA	28	14.28
70439	SUB BASE	EA	28	12.46
70440	TEMP CONTROL	EA	30	59.53
70444	MODULATING THERM	EA	28	79.58
70448	Q539A 1147 S BASE	EA	29	13.52
70455	COMP FURNACE CTRL	EA	30	19.98
70456	RELAY & TRSF	EA	15	33.75
70457	RELAY & TRSF	EA	15	37.82
70458	SAFETY LIM CTRL	EA	29	93.36
70466	POWERPILE THERMOSTAT	EA	29	22.64
70467	THERM GUARD	EA	30	21.97
70481	CONTACTOR 24V 30A	EA	16	17.12
70482	RELAY 24V DPDT	EA	15	14.24
70489	Q605A 1070 LINK	EA	61	17.42
70490	DAMPER LINKAGE	EA	61	24.12
70491	DAMPER LINKAGE	EA	61	49.61
70498	L4064B2210 FAN LIMIT CONTROL	EA	30	20.43
70499	L4064B2228 FAN LIMIT CONTROL	EA	30	15.93
70539	Q340A1066 18" THERMOCOUPLE	EA	37	4.46
70561	Q682A1012SUB BASE	EA	29	10.18
70562	Q682A1020SUB BASE	EA	29	10.55
70563	Q682A1038SUB BASE	EA	29	10.18
70565	GAS SAVER KIT	EA	35	142.38
70566	GAS VALVE 1/2X3/4	EA	36	49.55

PART	DESCRIPTION	UOM	PAGE	PRICE
70567	GAS VA;VE 3/4 X 3/4	EA	36	75.30
70609	MANOMETER KIT	EA	92	316.22
70611	AIR VELOCITY METER	EA	92	24.49
70612	MANOMETER FLEX TUBE	EA	92	23.20
70613	AIR FILTER GAUGE	EA	92	68.69
70616	GAS PRESSURE KIT	EA	91	49.77
70635	PRES GAUGE 0-1" WC	EA	92	54.95
70636	PRESS GAUGE 0-2" WC	EA	92	54.95
70637	PRESS GAUGE 0-6" WC	EA	92	54.95
70638	PRESS GAUGE 0-15" WC	EA	92	54.95
70639	A-605 AIR FILTER ADAPTER KIT	EA	92	16.72
70640	12-16178-00 CASE 1216	EA	92	38.17
70645	THERMOCOUPLE TUBE	EA	86	53.55
70646	480 VANEOMETER	EA	92	25.79
70650	THERMISTER VAC GAUGE	EA	86	134.80
70680	T8200A1095 THERMOSTAT	EA	30	75.34
70681	SUB BASE	EA	28	11.84
70682	Q6000B1003 SUBBASE	EA	28	6.57
70683	T8100A1005 THERM	EA	28	45.42
70684	T8082A1148THERM	EA	29	72.86
70685	T8085A1004 THERM	EA	29	59.95
70686	Q682B1011SUBBASE	EA	29	12.00
70687	T874C1018 THERM	EA	28	53.78
70688	T874A1036 THERM	EA	28	42.87
70689	T874D1165 THERM	EA	28	61.76
70690	Q674C1058 SUBBASE	EA	28	11.65
70691	Q674A1019 SUBBASE	EA	28	12.13
70692	Q674B1034 SUBBBASE	EA	28	12.57
70694	T874E1016 2 STG CL THERMOST	EA	28	39.31
70741	ACCUSTAT HTG/CLG	EA	32	34.39
70742	ACCUSTAT HTG ONLY	EA	32	22.13
70743	LIMITER DUCT HTG/CLG	EA	32	14.12
70744	LIMITER DUCT HEAT	EA	32	10.15
70745	LIMITER DUCT COOL	EA	32	10.15
70746	SENSORS 55F	EA	32	5.13
70747	SENSORS 65F	EA	32	5.13
70748	SENSORS 68F	EA	32	5.13
70749	SENSORS 70F	EA	32	5.13
70750	SENSORS 78F	EA	32	5.13
70755	SENSORS 45F	EA	32	5.13
70756	SENSORS 62F	EA	32	5.13
70757	SENSORS 72F	EA	32	5.13
70758	SENSORS 74F	EA	32	5.13
70759	SENSORS 76F	EA	32	5.13
70760	SENSORS 80F	EA	32	5.13
70771	ACCUSTAT COOLING	EA	32	22.13
70772	ACCUSTAT HEATING	EA	32	22.65
70773	ACCUSTAT HTG/COOLING	EA	32	30.39
70774	ACUSTAT HTG/COOLING	EA	32	49.22
70775	LIMITER WALL COOL	EA	32	13.55
70776	LIMITER WALL HEAT	EA	32	13.55
70777	LIMITER WALL COOL/HEAT	EA	32	19.88
70790	ACCUSTAT 115V	EA	32	41.88
70791	ACCUSTAT 115V	EA	32	42.17
70792	ACCUSTAT 230V	EA	32	42.32
70793	LV220A H2 ACCUSTAT 2TEMP 220V	EA	32	42.62
70900	SERVICE COMBUST TEST KIT	EA	92	219.91
70904	UTILITY COMBUST TEST KIT	EA	91	340.34
70908	10-5000 CO2 INDICATOR KIT	EA	92	146.61
70909	CO2 FLUID PKG 3 BOTTLES	PKG	92	24.09
70910	11-7047 CO2 REFILL PKG 20-60	PKG	92	17.80
70911	11-7052 CO2 REPAIR PKG 20-60	PKG	92	29.32
70913	13-3000 DRAFTRITE O.14 GAUGE	EA	91	62.83
70915	AIR VELOCITY METER	EA	91	183.26
70925	12-7011 SLING PSYCHROMETER	EA	55	44.35
70926	REFILL THERMOMETER FOR 70925	EA	55	12.87
70927	16-7002 AIR VELOCITY METER	EA	91	183.26
70928	16-7005 AIR VELOCITY METER	EA	91	246.09
70940	22-7059 RELATIVE HUMIDITY IND	EA	93	277.51
70943	22-7042 RH TEMP RECORDER 24 HR	EA	92	602.14
70944	22-7018 RH TEMP RECORDER 7 DAY	EA	92	565.49
70947	CHARTS 24 HR PKG OF 100	PKG	92	18.85
70948	CHARTS 7 DAY PKG OF 100	PKG	92	18.85
70949	22-0720 SERDEX BLUE PEN	EA	92	7.44
70950	22-0721 SERDEX RED PEN	EA	92	7.44
70951	19-7021 CO DETECTOR SET	EA	92	125.66
70952	19-5005 CO DETECTOR FLUE TEST	EA	92	157.08
70953	GASAVER COMBUST KIT	KIT	91	570.72
70956	CO DETECTOR TUBES PKG OF 12	PKG	92	23.04
70961	PLENUM ADPT KIT FOR 70960	EA	94	29.57
70968	NYLON BRUSH FOR 70960	EA	94	20.67
70969	MOTOR COMPLT FOR 70960	EA	94	33.86
70970	HORIZ FLOAT CONTROL VALVE	EA	94	6.27
70971	VERT. FLOAT CONTROL VALVE	EA	94	7.44
70972	HORIZ FLOAT CONTROL VALVE	EA	94	7.44
70973	VERT. FLOAT CONTROL VALVE	EA	94	8.18
70974	RESERVOIR FLOAT VALVE	EA	94	14.05
70976	8 SADDLE VALVE	EA	43	2.16
70980	115V COND PUMP	EA	71	43.92
70983	SCREEN FOR 70980	EA	71	7.04
70984	115V COND PUMP	EA	71	45.36
70985	115V COND PUMP	EA	71	72.56
70991	230V COND PUMP	EA	71	52.18
71001	115V COND PUMP	EA	71	51.52
71002	240V COND PUMP	EA	71	54.72
71003	115V COND PUMP	EA	71	63.76
71004	240V COND PUMP	EA	71	70.64
71005	115V COND PUMP	EA	71	42.24
71007	RIM-1 115V ICE MACH PUMP	EA	71	39.68
71011	RIM-5 115V ICE MACH PUMP	EA	71	53.92
71013	580002 2-MD 115V PUMP	EA	71	88.42
71014	581002 3-MD !1115V PUMP	EA	71	101.95
71015	582002 4-MD 115V PUMP	EA	71	122.11
71016	550100 TKT TANK KIT	EA	71	8.64
71021	BEK200UL COND PMP	EA	71	46.15
71022	6-CIA 115V SUMP PUMP	EA	70	110.56
71027	COND PUMP	EA	71	35.14
71029	48803 412 UL CONDENSATE PUMP	EA	71	59.57
71030	M600 MIGHTY MAX PUMP	EA	70	17.12
71031	120V DRAIN PUMP	EA	70	55.68

PART	DESCRIPTION	UOM	PAGE	PRICE
71032	599008 RS-5 REMOTE SWITCH	EA	70	22.00
71040	ACID DESCALING PUMP	EA	70	337.37
71041	REPAIR FOR 71040	EA	70	38.93
72100	8X6 RETURN GRILLE	EA	45	7.71
72101	10X6 RETURN GRILLE	EA	45	8.47
72102	10X10 RETURN GRILLE	EA	45	9.24
72103	12X6 RETURN GRILLE	EA	45	9.24
72104	77016 T70D 12X10 RETURN	EA	45	11.59
72105	12X12 RETURN GRILLE	EA	45	10.77
72106	14X6 RETURN GRILLE	EA	45	9.94
72107	18X12 RETURN GRILLE	EA	45	13.06
72108	18X18 RETURN GRILLE	EA	45	17.71
72109	24X12 RETURN GRILLE	EA	45	16.88
72110	24X18 RETURN GRILLE	EA	45	24.14
72112	30X12 RETURN GRILLE	EA	45	22.49
72131	75809 T64 10X6 GRILLE	EA	46	14.14
72132	75814 T64 12X6 GRILLE	EA	46	14.14
72133	75815 T64 12X8 GRILLE	EA	46	15.93
72134	75820 T64 14X6 RETURN	EA	46	15.93
72135	75821 T64 14X8 GRILLE	EA	46	16.88
72136	75845 T64 20X8 GRILLE	EA	46	21.53
72137	75865 T64 24X6 GRILLE	EA	46	23.38
72138	75866 T64 24X8 GRILLE	EA	46	26.25
72139	75867 T64 24X10 GRILLE	EA	46	40.26
72140	75868 T64 24X12 GRILLE	EA	46	31.85
72141	75904 T64 30X6 GRILLE	EA	46	28.99
72142	75905 T64 30X8 GRILLE	EA	46	31.85
72144	75907 T64 30X12 GRILLE	EA	46	40.20
72145	75807 T64 10X4 GRILLE	EA	46	13.06
72146	75812 T64 12X4 GRILLE	EA	46	14.14
72147	75818 T64 14X4 GRILLE	EA	46	15.93
72149	75828 T64 16X8 GRILLE	EA	46	18.73
72150	75844 T64 20X6 GRILLE	EA	46	18.73
72155	77010 T70D 10X8 RETURN	EA	45	9.24
72156	12X8 RETURN GRILLE	EA	45	9.94
72157	14X8 RERURN GRILLE	EA	45	9.94
72158	14X10 RETURN GRILLE	EA	45	11.59
72159	14X12 RETURN GRILLE	EA	45	12.55
72160	10926 T62 8X6 GRILLE	EA	45	12.81
72162	10930 T62 10X6 GRILLE	EA	45	13.51
72163	10933 T62 12X4 GRILLE	EA	45	12.81
72165	10935 T62 12X6 GRILLE	EA	45	14.97
72166	10936 T62 12X8 GRILLE	EA	45	16.50
72167	10941 T62 14X6 GRILLE	EA	45	16.50
72169	10948 T62 18X8 GRILLE	EA	45	20.96
72170	10949 T62 20X6 GRILLE	EA	45	24.02
72171	10950 T62 20X8 GRILLE	EA	45	25.48
72172	10953 T62 24X6 GRILLE	EA	45	27.77
72173	10954 T62 24X8 GRILLE	EA	45	29.18
72174	10956 T62 24X12 GRILLE	EA	45	31.41
72177	10962 T62 36X12 GRILLE	EA	45	49.50
72178	10927 T62 8X8 GRILLE	EA	45	13.51
72179	10931 T62 10X8 GRILLE	EA	45	14.97
72180	10937 T62 12X10 GRILLE	EA	45	17.97
72181	10942 T62 14X8 GRILLE	EA	45	17.97
72182	10978 T62 14X10 GRILLE	EA	45	19.56
72183	10946 T62 16X8 GRILLE	EA	45	19.56
72184	10947 T62 18X6 GRILLE	EA	45	19.56
72185	10955 T62 24X10 GRILLE	EA	45	30.64
72187	77203 T647 8X4 REGISTER	EA	46	14.65
72190	77209 T647 10X6 REGISTER	EA	46	18.16
72191	77214 T647 12X6 REGISTER	EA	46	19.81
72192	77215 T647 12X8 REGISTER	EA	46	21.60
72193	77220 T647 14X6 REGISTER	EA	46	21.60
72194	77227 T647 16X6 REGISTER	EA	46	22.49
72196	77235 T647 18X6 REGISTER	EA	46	26.25
72197	77238 T647 18X12 REGISTER	EA	46	33.70
72198	77244 T647 20X6 REGISTER	EA	46	26.76
72199	77245 T647 20X8 REGISTER	EA	46	28.41
72203	77268 T647 24X12 REGISTER	EA	46	40.58
72211	10489 92VHV 12X4	EA	46	18.16
72212	10495 92VHV 14X4	EA	46	27.33
72220	8X4 WALL REGISTER	EA	45	4.84
72221	8X6 WALL REGISTER	EA	45	5.41
72222	10X4 WALL REGISTER	EA	45	4.52
72223	10X6 WALL REGISTER	EA	45	5.03
72225	12X4 WALL REGISTER	EA	45	5.10
72226	12X6 WALL REGISTER	EA	45	5.86
72227	12X8 WALL REGISTER	EA	45	8.85
72228	14X6 WALL REGISTER	EA	45	6.31
72229	14X8 WALL REGISTER	EA	45	9.43
72230	14X4 WALL REGISTER	EA	45	6.82
72270	2X10 FLOOR REGISTER	EA	45	8.22
72271	2X12 FLOOR REGISTER	EA	45	8.41
72272	2X14 FLOOR REGISTER	EA	45	10.26
72273	4X10 FLOOR REGISTER	EA	45	8.92
72276	4X14 FLOOR REGISTER	EA	45	11.72
72300	8X6 WALL REGISTER	EA	45	14.91
72302	10X6 WALL REGISTER	EA	45	7.07
72304	12X6 WALL REGISTER	EA	45	7.39
72327	10X6 DIFFUSAIRE	EA	46	4.08
72328	12X6 DIFFUSAIRE	EA	46	4.23
72338	10680 406 18 IN	EA	46	6.12
72350	6" CEIL DIFFUSAIRE	EA	45	4.71
72351	8" CEIL DIFFUSAIRE	EA	45	5.35
72352	10" CEIL DIFFUSAIRE	EA	45	6.43
72353	12" CEIL DIFFUSAIRE	EA	45	9.11
72354	14" CEIL DIFFUSAIRE	EA	45	12.04
72360	6" DAMPER	EA	45	7.14
72361	8" DAMPER	EA	45	7.52
72362	10" DAMPER	EA	45	8.85
72363	12" DAMPER	EA	45	12.49
72364	14" DAMPER	EA	45	14.91
72381	8" CEIL DIFFUSAIRE	EA	45	13.00
72382	10" CEIL DIFFUSAIRE	EA	45	15.73
72383	12" CEIL DIFFUSAIRE	EA	45	18.28
72384	14" CEIL DIFFUSAIRE	EA	45	23.12
72385	16" CEIL DIFFUSAIRE	EA	45	87.72
72386	18" CEIL DIFFUSAIRE	EA	45	93.71
72387	20" CEIL DIFFUSAIRE	EA	45	116.39

PART	DESCRIPTION	UOM	PAGE	PRICE
72391	8" DAMPER	EA	45	8.82
72392	10" DAMPER	EA	45	10.19
72393	12" DAMPER	EA	45	12.23
72394	13279 22 14 IM	EA	45	14.27
72395	16" DAMPER	EA	45	56.70
72396	18" DAMPER	EA	45	66.44
72397	DISC BY MFG	EA	45	97.63
72402	10X4 RET AIR GRILLE	EA	45	3.24
72403	10X6 RET AIR GRILLE	EA	45	2.48
72405	10X10 RET AIR GRILLE	EA	45	4.97
72407	12X6 RET AIR GRILLE	EA	45	2.61
72408	12X8 RET AIR GRILLE	EA	45	3.19
72410	12X12 RET AIR GRILLE	EA	45	4.59
72411	14X6 RET AIR GRILLE	EA	45	2.61
72414	14X12 RET AIR GRILLE	EA	45	6.37
72415	14X14 RET AIR GRILLE	EA	45	6.18
72416	16X8 RET AIR GRILLE	EA	45	5.03
72417	16X10 RET AIR GRILLE	EA	45	7.07
72418	16X12 RET AIR GRILLE	EA	45	7.58
72420	16X16 RET AIR GRILLE	EA	45	9.24
72421	18X12 RET AIR GRILLE	EA	45	8.03
72423	18X16 RET AIR GRILLE	EA	45	11.34
72425	20X8 RET AIR GRILLE	EA	45	5.86
72426	20X10 RET AIR GRILLE	EA	45	7.84
72427	20X12 RET AIR GRILLE	EA	45	8.54
72428	20X14 RET AIR GRILLE	EA	45	11.15
72429	20X16 RET AIR GRILLE	EA	45	12.74
72430	20X18 RET AIR GRILLE	EA	45	14.33
72431	20X20 RET AIR GRILLE	EA	45	14.78
72432	24X6 RET AIR GRILLE	EA	45	3.95
72434	24X10 RET AIR GRILLE	EA	45	9.30
72435	24X12 RET AIR GRILLE	EA	45	9.75
72436	24X14 RET AIR GRILLE	EA	45	13.12
72437	24X16 RET AIR GRILLE	EA	45	14.91
72438	24X18 RET AIR GRILLE	EA	45	16.37
72439	24X20 RET AIR GRILLE	EA	45	18.09
72440	30X6 RET AIR GRILLE	EA	45	4.65
72441	30X8 RET AIR GRILLE	EA	45	6.56
72442	30X10 RET AIR GRILLE	EA	45	11.15
72443	30X12 RET AIR GRILLE	EA	45	12.23
72444	30X14 RET AIR GRILLE	EA	45	16.37
72445	30X16 RET AIR GRILLE	EA	45	18.35
72446	30X18 RET AIR GRILLE	EA	45	20.26
72447	30X20 RET AIR GRILLE	EA	45	22.62
72450	CEILING DIFFUSAIRE	EA	46	27.58
72451	6" COLLAR	EA	46	2.10
72452	8" COLLAR	EA	46	2.10
72453	10" COLLAR	EA	46	2.10
72454	12" COLLAR	EA	46	2.10
72455	6" DAMPER	EA	46	4.97
72456	8" DAMPER	EA	46	4.97
72457	10" DAMPER	EA	46	5.41
72458	12" DAMPER	EA	46	6.05
72485	6X14 FLOOR GRILLE	EA	45	10.32
72489	8X14 FLOOR GRILLE	EA	45	11.47
72495	10X18 FLOOR GRILLE	EA	45	34.46
72496	10X24 FLOOR GRILLE	EA	45	20.64
72498	12X14 FLOOR GRILLE	EA	45	14.65
72499	12X24 FLOOR GRILLE	EA	46	21.40
72500	12X30 FLOOR GRILLE	EA	46	49.56
72502	14X16 FLOOR GRILLE	EA	46	38.60
72503	14X24 FLOOR GRILLE	EA	46	24.97
72504	14X30 FLOOR GRILLE	EA	46	29.24
72540	20X14 FILTER GRILLE	EA	45	17.84
72541	20X16 FILTER GRILLE	EA	45	19.05
72542	20X20 FILTER GRILLE	EA	45	22.36
72543	24X12 FILTER GRILLE	EA	45	17.65
72544	24X14 FILTER GRILLE	EA	45	23.95
72547	25X16 FILTER GRILLE	EA	45	20.89
72548	25X20 FILTER GRILLE	EA	45	25.80
72549	30X20 FILTER GRILLE	EA	45	32.93
72550	16X20 FILTER GRILLE	EA	45	19.43
72551	16X25 FILTER GRILLE	EA	45	26.63
72552	20X25 FILTER GRILLE	EA	45	25.80
72553	20X30 FILTER GRILLE	EA	45	30.01
72590	AIR DEFLECTOR	EA	46	3.08
72591	AIR DEFLECTOR	EA	46	2.09
72594	AIR DEFLECTOR	EA	46	4.56
72598	EXTENSION SLV FOR AIR DEFLECTR	EA	46	1.55
72900	FURNAS CONTACTOR 24V	EA	17	25.28
72901	FURNAS CONTACTOR 115V	EA	17	25.28
72902	FURNAS CONTACTOR 230V	EA	17	25.28
72903	FURNAS CONTACTOR 24V	EA	17	18.72
72904	FURNAS CONTACTOR 115V	EA	17	18.72
72905	FURNAS CCONTACTOR 230V	EA	17	18.72
72906	FURNAS CONTACTOR 24V	EA	17	28.08
72907	FURNAS CONTACTOR 115V	EA	17	28.08
72908	FURNAS CONTACTOR 230V	EA	17	28.08
72909	FURNAS CONTACTOR 24V	EA	17	33.07
72911	FURNAS CONTACTOR 230V	EA	17	33.07
72912	FURNAS CONTACTOR 115V	EA	17	38.69
72913	FURNAS CONTACTOR 115V	EA	17	38.69
72914	FURNAS CONTACTOR 230V	EA	17	38.69
72915	FURNAS CONTACTOR 24V	EA	17	61.87
72916	FURNAS CONTACTOR 115V	EA	17	61.87
72917	FURNAS CONTACTOR 230V	EA	17	61.87
72918	FURNAS CONTACTOR 24V	EA	17	68.67
72919	FURNAS CONTACTOR 115V	EA	17	68.67
72920	FURNAS CONTACTOR 230V	EA	1	68.67
72921	24V COIL	EA	17	9.04
72922	75D54822F 110-120 VOLT COIL	EA	17	9.04
72923	75D54822G 208-240 VOLT COIL	EA	17	9.04
73000	THERMOCOUPLE 36"	EA	37	6.24
73001	THERMOCOUPLE 24"	EA	37	4.16
73002	THERMOCOUPLE 36"	EA	37	9.06
73030	K16BT-18 HUSKY THERMOCOUPLE	EA	37	5.75
73031	K16BT-24 HUSKY THERMOCOUPLE	EA	37	6.08
73032	K16BT-30 HUSKY THERMOCOUPLE	EA	37	6.20
73033	K16WT-48 HUSKY THERMOCOUPLE	EA	37	9.68
73034	K16WT-60 HUSKY THERMOCOUPLE	EA	37	10.78
73035	K16WT-72 HUSKY THERMOCOUPLE	EA	37	11.30
73036	K19AT-18 SLIM JIM	EA	37	4.28
73037	K19AT-30 SLIM JIM	EA	37	4.53
73038	K19AT-48 SLIM JIM	EA	37	5.05
73039	K19AT-60 SLIM JIM	EA	37	6.13
73040	K19AT72 SLIM JIM THERMOCOUPLE	EA	37	6.57
73048	J991MDA-2 BURNER	EA	37	7.08
73049	# 2 TIP ARRANGEMENT	EA	37	6.48
73050	# 3 TIP ARRANGEMENT	EA	37	7.08
73051	J994MDA-2 # 4 TIP ARRANGEMENT	EA	37	7.08
73052	J995MDA-2 #5 TIP ARRANGEMENT	EA	37	7.10
73053	J996MDA-2 #6 TIP ARRANGEMENT	EA	37	7.10
73054	J997MDA-2 #7 TIP ARRANGEMENT	EA	37	7.10
73055	J998MDA-02 #8 TIP ARRANGEMENT	EA	37	7.10
73056	J999MDA-2 #9 TIP ARRANGEMENT	EA	37	7.10
73057	J999MHA-2 L CHANNEL BURNER	EA	37	7.10
73058	J999MKA-2SHELL PILOT BURNER	EA	37	7.10
73059	J999MYA-2 Y CHANNEL	EA	37	7.10
73350	391477B POWERPILE	EA	36	18.09
73351	391479B POWER UNIT	EA	36	17.35
73352	392393B C POWER UNIT	EA	36	16.20
73353	392394B CS PWER UNIT	EA	36	16.21
73357	Q303B1287 GAS BURNER CONT	EA	36	9.94
73358	Q308A1881 GAS BURNER CONT	EA	36	7.84
73359	Q308A1386 BRACKET	EA	36	7.08
73360	T475A1032 CONTROL	EA	29	90.35
73361	T475A1057 CONTROL	EA	29	93.32
73362	T475A1016 RESET CONTROL	EA	29	240.93
73366	Q314A3547 MTG BRACKET	EA	36	7.06
73367	Q134A4586 MTG BRACKET	EA	36	7.97
73368	Q314A6094	EA	36	7.92
73369	Q314A6102	EA	36	7.97
73370	R4220B1092 CONTACTOR	EA	16	58.74
73371	DISC BY MFG	EA	16	78.75
73372	R8220B1051 CONTACTOR	EA	16	58.74
73373	R4234B1054 CONTACTOR	EA	16	71.29
73374	R4234B1062 CONTACTOR	EA	16	71.29
73375	DISC BY MFG	EA	16	99.75
73380	Q327A1626 BRACKET	EA	36	9.48
73381	390012C FEMALE ADAPTER	EA	36	5.62
73382	CS82A1131	EA	36	25.40
73383	CS893B1106	EA	36	22.86
73384	CS894D1101	EA	36	22.29
78385	CS894D1127	EA	36	22.43
73386	CS897A1039	EA	36	21.42
73387	Q357A1003 TERMINAL ADAPT	EA	36	3.44
73388	392451-1 ADAPTER	EA	36	5.98
73461	394530 TCPLE TEST	EA	37	12.99
73462	H808B1012 HUMSTAT	EA	28	20.25
73506	VS8187A1351 GASD VALVE	EA	35	62.68
73509	CS897A1039 CONT	EA	35	22.20
73519	DISC BY MFG	EA	17	51.69
73521	DISC BY MFG	EA	32	46.25
73522	H46C1000 HUMIDIST	EA	32	28.84
73524	H46D1032 HUMIDIST	EA	32	33.25
73525	T991A1426 MOD CONTROL	EA	28	80.52
73526	T991A1244 MOD CTR	EA	28	83.20
73527	DISC BY MFG	EA	28	28.82
73531	H49A1019 HUMDR	EA	28	25.68
73536	T87F1867 THERM	EA	29	18.16
73537	T87F1826 THERM	EA	29	20.61
73540	Q539A1014 SUB BASE	EA	29	11.87
73541	Q539C1020 SUB BASE	EA	29	13.62
73543	Q539B1005 SUBBASE	EA	29	12.51
73544	T631C1004 AIR SWT	EA	28	46.50
73545	T631C1053 AIR SWT	EA	28	44.99
73546	T631C1020 AIR SWITCH	EA	28	48.44
73550	V8043F1036 ZONE VALVE	EA	43	46.40
73551	V8043F1051 AIR VALVE	EA	43	64.62
73593	T822D1024 THERMS	EA	30	14.74
73594	T822D1032 THERMS	EA	30	17.30
73595	T822C1090 THERMS	EA	30	15.80
73599	R4214P1016 CONTR	EA	16	65.85
73600	R8214G1140 CONTR	EA	16	31.60
73601	R8214P1009 CONT	EA	16	58.87
73602	R4214G1347 CONTR	EA	16	31.60
73603	R4214G1354 CONTR	EA	16	37.07
73604	M436A1116 DAMPER MOTOR	EA	61	118.46
73626	C434A1013 PILOT ST	EA	35	29.51
73627	T6031C1009 AQUASTAT	EA	28	45.09
73628	T6031C1025 AQUASTAT	EA	28	44.77
73629	T678F1002 THERM	EA	30	54.54
73637	M835A1051 DAMPER MOTOR	EA	61	94.16
73640	R4243B1004 CONTAC	EA	16	14.19
73641	R4243B1012 CONTACTOR	EA	16	14.30
73651	T675A1516 TEMP CT	EA	30	47.80
73652	T675A1540 TEMP CT	EA	30	61.28
73653	T675A1532 TEMP CON	EA	30	52.31
73654	T678A1437 TEMP CT	EA	30	69.18
73655	T678A1445 TEMP CT	EA	30	73.27
73661	AT87A1106 TRANSFORMER	EA	100	13.91
73662	AT88A1021 TRANSFORMER	EA	100	30.12
73665	T42P1018 THERM	EA	28	131.04
73671	T6031A10129 CONT	EA	30	30.38
73672	R8225A1017 RELAY	EA	15	20.02
73674	R8225D1003 RELAY	EA	15	23.[illegible]
73675	R8239A1052 RELAY	EA	15	22.[illegible]
73700	DAMPER SWIVEL CTRL	EA	61	1.51
73701	DAMPER CRANK ARM	EA	61	2.39
73702	DAMPER CRANK ARM	EA	61	2.39
73703	DAMPER CRANK ARM	EA	61	2.57
73704	DAMPER CRANK ARM	EA	61	2.74
73726	A800A1088 GAS VALVE	EA	35	43.00
73727	V800A1070 GAS VALVE	EA	35	39.84
73728	DISC BY MFG	EA	35	62.35
73729	VS820A1054 GAS VALVE	EA	35	45.32
73731	V8202A1018 GAS VALVE	EA	35	53.11
73733	T87F2873 THERM	EA	29	15.54
73735	T6051A1016 STAT	EA	28	50.52
73736	Q651A1009 SUBBASE	EA	28	21.99

PART	DESCRIPTION	UOM	PAGE	PRICE
73741	AT72D1683 TRANSFORMER	EA	100	11.35
73742	AT72D1691 TRANSFORMER	EA	100	11.77
73751	T87F3467 STAT HANDIC	EA	30	22.02
73761	T651A1269 STAT	EA	28	37.14
73763	S688A1007 SAIL SWITCH	EA	30	18.52
73764	123773A REP SAIL	EA	30	3.63
73769	Q539J1006 SUBBASE	EA	29	11.87
73771	PILOT TUBE NUT & FERRULE	EA	36	.33
73781	TG500A1003 COVER	EA	30	14.02
73782	TG501A1002 COVER	EA	15	13.80
73783	R8239B1043 RELAY	EA	15	32.76
73784	L6006C1018 STAT	EA	29	31.87
73790	BTG-54VLW METAL THRMST GUARD	EA	30	15.88
73791	BTG-UWM METAL THRMST GUARD	EA	30	18.39
73796	R8325A1008 RELAY	EA	15	16.59
73800	DIGISTAT H-C SETBACK THERMOSTA	EA	30	107.25
73801	INTERFACE 111 FOR 73800	EA	30	13.59
73802	SOLID STATE TRANSF RELAY	EA	30	42.90
73805	MINI-MIZER 24V FUEL SAVER	EA	29	90.09
73806	DISC BY MFG	EA	29	70.75
73807	DIGISTST H-C RS SETBACK THERM	EA	30	130.85
73810	SUPERSTAT & INTERFACE 3 STAGE	EA	32	272.27
74430	C FRAME MOTOR	EA	57	4.74
74431	C FRAME MOTOR	EA	57	4.87
74432	C FRAME MOTOR	EA	57	5.93
74433	C FRAME MOTOR	EA	57	6.79
74437	4" CW.181 BORE FAN BLADE	EA	57	.62
74438	4" CW.218 BORE FAN BLADE	EA	57	.62
74439	5" CW.218 BORE FAN BLADE	EA	57	.67
74447	4" CCW.181 BORE FAN BLADE	EA	57	.62
74448	4" CCW.218 BORE FAN BLADE	EA	57	.62
74449	5" CCW.218 BORE FAN BLADE	EA	57	.67
74468	C FRAME MOTOR	EA	57	8.00
74479	C FRAME MOTOR	EA	57	6.40
80113	R22 COMPRSR 230/60/1	EA	9	167.82
80114	R22 COMPRSR 115/60/1	EA	9	172.64
80115	R22 COMPRSR 230/60/1	EA	9	172.64
80116	R22 COMPRSR 230/60/1	EA	9	181.31
80117	R22 COMPRSR 230/60/1	EA	9	202.53
80470	18/2 THERMOSTAT WIRE 500 FT SP	EA	53	13.36
80471	18 3 THERMOSTAT WIRE 500 FT SP	EA	53	18.12
80472	18/4 THERMOSTAT WIRE 250 FT SP	EA	53	12.71
80473	18/6 THERMOSTAT WIRE 250 FT SP	EA	53	18.52
80474	18/8 THERMOSTAT WIRE 250 FT SP	EA	53	23.60
80475	18/5 THERMOSTAT WIRE 250 FT SP	EA	53	15.00
80770	3" FLEX ALUM DUCT 8' LGT	LGT	46	5.68
80771	4" FLEX ALUM DUCT 8' LGT	LGT	46	7.18
80772	5" FLEX ALUM DUCT 8' LGT	LGT	46	9.50
80773	6" FLEX ALUM DUCT 8' LGT	LGT	46	11.28
80774	7" FLEX ALUM DUST 8' LGT	LGT	46	13.22
80775	8" FLEX ALUM DUCT 8'LGT	LGT	46	15.36
80776	10" FLEX ALUM DUCT 8' LGT	LGT	46	19.34
80777	12" FLEX ALUM DUCT 8' LGT	LGT	46	25.22
80778	14" FLEX ALUM DUCT 8' LGT	LGT	46	30.90
80779	16" FLEX ALUM DUCT 8' LGT	LGT	46	36.50
80780	18" FLEX ALUM DUCT 8' LGT	LGT	46	42.19
80912	DUCT WRAP 48"W X 100FT ROLL	ROL	46	94.80
80914	DUCT WRAP 48"W X 100FT ROLL	ROL	46	107.10
80921	5" AIR DUCT 25' LGT	LGT	46	21.10
80922	6" AIR DUCT 25' LGT	LGT	46	24.07
80923	7" AIR DUCT 25' LGT	LGT	46	25.07
80924	AIR DUCT 25' LGT	LGT	46	29.82
80925	AIR DUCT 25' LGT	LGT	46	30.23
80926	AIR DUCT 25' LGT	LGT	46	35.36
80927	AIR DUCT 25' LGT	LGT	46	40.50
80928	AIR DUCT 25' LGT	LGT	46	54.06
80929	AIR DUCT 25' LGT	LGT	46	57.72
90000	CK COMPRESSOR W/ FLYWHEEL F12	EA	8	1087.01
90001	CM COMPRESSOR W/FLYWHEEL F12	EA	8	2235.85
90020	AH7480AW F12COND UNIT 230/60/1	EA	7	465.36
90021	AH7480AW F12COND UNT230/60/3	EA	7	523.21
90022	AH2445AW F12 COND UNT 230/60/1	EA	8	537.93
90023	AH2445AW F12 COND UNT 230/60/3	EA	8	572.82
90030	AH7511BW F12 COND UNT 230/60/1	EA	7	521.77
90031	AH7511AW F12 COND UNT 230/60/3	EA	7	557.11
90032	AH2466AW F12 COND UNT 230/60/1	EA	8	529.57
90033	AH2466AW F12 COND UNT 230/60/3	EA	8	591.99
90034	AH2466AC F12 COND UNT 230/60/1	EA	7	547.40
90035	AH2466AC F12 COND UNT 230/60/3	EA	7	617.06
90036	AH7511BC F12 COND UNT 230/60/1	EA	7	582.07
90037	AH751AC F12 COND UNT 230/60/3	EA	7	619.30
90040	AH7514AW F12 COND UNT 230/60/1	EA	7	531.57
90041	AH7514AW F12COND UNT 230/60/3	EA	7	576.61
90042	AH2511KW F502 COND UNT230/60/1	EA	8	610.49
90043	AH2511KC F502 COND UNT230/60/1	EA	8	681.50
90044	AH2511KC F502 COND UNT230/60/1	EA	7	633.34
90045	AH2511KC F502 COND UNT230/60/1	EA	7	641.93
90046	AH7514AC F12 COND UNT 230/60/1	EA	7	589.19
90047	AH7514AC F12 COND UNT230/60/3	EA	7	647.28
90049	DISC BY MFG NO SUB	EA	7	649.00
90052	AH7524JC F502 COND UNT230/60/1	EA	7	765.87
90053	AH7524JC F502 COND UNT230/60/3	EA	7	791.29
90054	AH2514KM F502 COND UNT230/60/1	EA	7	765.87
90055	AH2512KM F502 COND UNT230/60/3	EA	7	810.68
90060	AG4547AM F12 COND UNT230/60/1	EA	8	1119.66
90061	AG4547AM F12 COND UNT 230/60/3	EA	8	1106.17
90080	AN5590G F22 COMPRSR 230/60/3	EA	3	722.74
90081	AN5590H F22 COMPRSR 230/60/3	EA	4	736.33
90082	AN5610G F22 COMPRSR 230/60/3	EA	3	738.56
90083	AN5610H F22 COMPRSR 230/60/3	EA	4	773.57
90084	AN5590G F22 COMPRSR 460/60/3	EA	3	742.35
90085	AN5590H F22 COMPRSR 460/60/3	EA	4	753.61
90086	AN5610G 3-460 HERMETIC COMPRES	EA	3	745.26
90087	AN5610H F22 COMPRSR 460/60/3	EA	4	755.96
90088	AN4590GM F22 COND UNT230/60/3	EA	9	1834.26
90089	AN4590GM F22 COND UNT460/60/3	EA	9	1937.81
90090	AN5612G F22 COMPRSR 230/60/3	EA	3	770.67
90091	AN5612H F22 COMPRSR 230/60/3	EA	4	815.80
90092	AN5614G F22 COPRSR 230/60/3	EA	3	804.11
90093	AN5614H F22 COMPRSR 230/60/3	EA	4	855.38
90094	AN5612G F22 COMPRSR 460/60/3	EA	3	775.57
90095	AN5612H AN133UT-035-J7 3-460	EA	4	819.38
90096	AN5614G F22 COMPRSR 460/60/3	EA	3	793.63
90097	AN5614H F22 COMPRSR 460/60/3	EA	4	844.91
90098	AN4612GM F22 COND UNT 230/60/3	EA	9	1979.61
90099	AN5612GM F22 COND UNT 460/60/3	EA	9	2105.12
90700	AIR CLEANER	EA	97	277.50
90705	WTCB-4 4 GAL WATER COOLER	EA	95	291.27
90706	WTCB-8 8GAL WATER COOLER	EA	95	383.24
90707	WTCB-14 14GAL WATER COOLER	EA	95	365.75
90710	TK20C SINGLE STATION	EA	96	258.12
90711	WFB-4 4 GAL FL WATER COOLER	EA	96	317.87
90712	WFB-8 8 GAL WATER COOLER	EA	96	386.10
90713	WFB14 14 GAL FL. WATER COOLER	EA	96	372.40
90714	TBA-1 BOTTLE WATER COOLER	EA	96	220.22
90715	THAD-5 5 GAL FL WATER COOLER	EA	96	305.90
90716	THAD-8 8 GAL WATER COOLER	EA	96	350.35
90740	35# CUBER C-10H A P	EA	99	733.00
90741	210# AIR COOLED UC20H-A-P	EA	99	1160.00
90742	215# CUBER UC-20H-W-P WATER	EA	99	1210.00
90743	233# AIR COOLED C 20H-A-P	EA	99	1035.00
90744	241# WATER COOLED C20H-W-P	EA	99	1035.00
90745	405# AIR COOLED C-40H-A-P	EA	99	1235.00
90746	432# WATER COOLED C-40H-W-P	EA	99	1235.00
90747	C61H-A-P 636# AIR COOLED CUBER	EA	99	1585.00
90748	C61H-W-P 640# WATER COOL CUBER	EA	99	1585.00
90749	F250A32P 246# AIR COOL FLAKER	EA	99	1445.00
90750	F400A32P 440# AIR COOL FLAKER	EA	99	1595.00
90751	F250A38P 246# AIR COOL FLAKER	EA	99	1595.00
90752	F400A38P 440# AIR COOL FLAKER	EA	99	1695.00
90760	B-20P 170# STORAGE BIN	EA	99	320.00
90761	B40P 365# STORAGE BIN	EA	99	420.00
90762	B55P 550# STORAGE BINS	EA	99	450.00
90790	THP-8 BARRIER FREE COOLER	EA	95	795.34
91065	VAC THERMOCOUPLE GAUGE	EA	91	297.28
91080	VACUUM PUMP	EA	70	852.91
91084	115V VACUUM PUMP	EA	70	929.63
91086	115V VACUUM PUMP	EA	70	1316.55
91205	COMPLETE BLW ASSY 360	EA	98	49.93
91206	COMPLETE BLWER ASSY 361	EA	98	52.11
93035	CCK 153 SG ICE CUBE GRID	EA	99	134.46
93036	CCK154CG CUBELET GRID	EA	99	182.33
93037	WATER PUMP FOR ICE MAKER	EA	99	100.08
93038	CUBE GRID	EA	99	120.10
93039	CUBELET GRID	EA	99	143.59
93040	28 AIR DOOR 115V	EA	97	321.54
93041	36 AIR DOOR 115V	EA	97	402.40
93042	42 AIR DOOR 115V	EA	97	416.77
93043	48 AIR DOOR 115V	EA	97	426.36
93045	60 AIR DOOR 115V	EA	97	536.54
93046	66HV AIR DOOR 115	EA	97	661.09
93047	MICRO SWITCH FOR ON/OFF CTRL	EA	97	18.20
93048	DISC BY MFG	EA	97	4.84
93053	REWIRE KIT FOR 93038	EA	99	55.50
93054	REWIRE KIT FOR 93039	EA	99	100.48
94010	CT56B CEILING FAN	EA	96	79.39
94202	DISC BY MFG	EA	98	105.51
94203	DISC BY MFG	EA	98	170.40
95202	040610 COMPLETE PUMP/MOTORASSY	EA	95	26.40
95207	HUMIDIFIER PUMP TYPE	EA	95	130.38
95208	EVAP PAD FOR 95207-95210	EA	95	5.57
95210	HUMIDIFIER DRAIN TYPE	EA	95	130.39
95211	102 HUMID TABLETS	EA	95	3.05
95217	HUMIDIFIER BY PASS	EA	95	81.76
95218	EVAP PAD FOR 95217	EA	95	6.16
95219	052000 HUMIDISTAT	EA	94	14.01
95250	HUMIDIFIER 120V	EA	95	226.10
95251	HUMIDIFIER 220V	EA	95	266.76
95252	FLOAT ASSY 040710	EA	95	5.81
95253	HUMIDISTAT	EA	95	23.67
95254	ADAPTER KIT W/CABINET	EA	95	122.65
95255	UNDER DUCT ADAPTER	EA	95	34.17
95256	EVAP PAD FOR 95280	EA	94	7.53
95280	HUMIDIFIER POWER	EA	94	109.31
95281	HUMIDIFIER BY PASS	EA	95	73.37
95300	AKT-22 SELF-CONTAIN REFRIG 1DR	EA	96	1427.90
95302	SKT22 SELF CONT REFRIG 1DR	EA	96	1606.39
95303	AKT22FA SELF CONT 1DR FREEZER	EA	96	1643.78
95305	SKT22FA SELF CONT 1DR FREEZER	EA	96	1828.90
95309	AKT74 SELF CONT REFRIG 3DR	EA	96	2425.87
95311	SKT74 SELF CONT REFRIG 3DR	EA	96	2720.13
95315	AKT74FA SELF CONT FREEZER 3DR	EA	96	3126.09
95317	SKT74FA SELF CONT FREEZER 3DR	EA	96	3398.51
95321	A5G REACH IN REFRIG SLD GLS	EA	96	1779.45
95323	ST5G REACH IN REFRIG SLD GLS	EA	96	1891.01
95352	SPECIAL HINGE FOR DOOR LH	EA	96	72.36
95713	DHD14 DEHUMIDIFER	EA	95	181.13
95715	DEHUMIDIFIER	EA	95	211.49
95716	DEHUMIDIFIER	EA	95	219.78
95717	DEHUMIDIFIER	EA	95	246.33
95718	DEHUMIDIFIER	EA	95	255.36
95719	DEHUMIDIFIER	EA	95	287.04
95740	VWKT 22 SELF CONT REFRIG 1DR	EA	96	1455.04
95741	VWKT22FA SELF CONT 1DR FREEZER	EA	96	1670.91
95742	VWKT36 SELF CONT REFRIG 2DR	EA	96	2007.39
95743	VWKT48 SELF CONT REFRIG 2DR	EA	96	1824.68
95744	VWKT48FA SELF CONT FREEZER 2DR	EA	96	2326.98
95745	VWKT74 SELF CONT REFRIG 3DR	EA	96	2473.51
95746	VWKT74FA SELF CONT FREEZER 3DR	EA	96	3160.93
95747	VW5G REACH IN REFRIG SLD GLS	EA	96	1810.81
95748	VWKR48 REMOTE W/O COND UNT 2DR	EA	96	1605.72
95789	999046 EVAP PAD	EA	94	4.18
95790	GEAR MOTOR REPL	EA	94	15.00
95791	3440 14 GAL HUMIDIFIER	EA	94	141.44
95793	3430 12 GAL HUMIDIFIER	EA	94	133.87
95890	VAC 25161 25 X 16 ELEC FILTER	EA	95	139.00
95891	VAC20161 20 X 16 ELEC FILTER	EA	95	139.00
95892	VAC 20201 20X20 ELEC FILTER	EA	95	139.00
95893	VAC 25201 25X20 ELEC FILTER	EA	95	139.00
95894	VAC 25141 25X14 ELEC FILTER	EA	85	139.00

PART	DESCRIPTION	UOM	PAGE	PRICE
96000	5'10"X5'10" SIDE MT WALKIN CLR	EA	97	1989.99
96001	5'10"X7'9" SIDE MT WALK IN CLR	EA	97	2297.07
96002	5'10"X9'8" SIDE MT WALKIN CLR	EA	97	2605.42
96003	7'9"X7'9" SIDE MT WALK IN CLR	EA	97	2668.73
96004	7'9"X9'8" SIDE MT WALK IN CLR	EA	97	3022.04
96005	7'9"X11'7" SIDE MT WALK IN CLR	EA	97	3370.26
96006	7'9"X13'6" SIDE MT WALK IN CLR	EA	97	3722.92
96007	9'8"X9'8" SIDE MT WALK IN CLR	EA	97	3434.85
96008	9'8"X11'7" SIDE MT WALK IN CLR	EA	97	3826.76
96009	9'8"X13'6" SIDE MT WALK IN CLR	EA	97	4220.58
96010	9'8"X15'5" SIDE MT WALK IN CLR	EA	97	4613.14
96011	11'7"X11'7" SIDE MT WALKIN CLR	EA	97	4230.07
96012	11'7"X13'6" SIDE MT WALKIN CLR	EA	97	4675.81
96013	11'7"X15'5" SIDE MT WALKIN CLR	EA	97	5105.72
96014	11'7"X17'4" SIDE MT WALKIN CLR	EA	97	5550.83
96015	11'7"X19'3" SIDE MT WALKIN CLR	EA	97	5981.37
96020	5'10X5'10 TOP MT GAL WALKINCLR	EA	97	1989.99
96021	5'10X7'9 TOP MT GAL WALKIN CLR	EA	97	2297.07
96022	5'10X9'8 TOPMT GAL WALKIN CLR	EA	97	2605.42
96023	7'9X7'9 TOP MT GAL WALKIN CLR	EA	97	2668.73
96024	7'9X9'8 TOP MT GAL WALKIN CLR	EA	97	3022.04
96025	7'9X11'7 TOP MT GAL WALKIN CLR	EA	97	3370.26
96026	7'9X13'6 GAL TOP MT WALKIN CLR	EA	97	3722.92
96027	9'8X9'8 GAL TOP MT WALKIN CLR	EA	97	3434.85
96028	9'8X11'7 GAL TOP MT WALKIN CLR	EA	97	3826.76
96029	9'8X13'6 GAL TOP MT WALKIN CLR	EA	97	4220.58
96030	9'8X15'5 GAL TOP MT WALKIN CLR	EA	97	4613.14
96031	11'7X11'7 GAL TOP MT WALKIN CL	EA	97	4230.07
96032	11'7X13'6 GAL TOP MT WALKIN CL	EA	97	4675.81
96033	11'7X15'5 GAL TOP MT WALKIN CL	EA	97	5105.72
96034	11'7X17'4 GAL TOP MT WALKIN CL	EA	97	5550.83
96035	11'7X19'3 GAL TOP MT WALKIN CL	EA	97	5981.37
96040	5'10X5'10 ALUM SD MT WLKN CLR	EA	97	2195.13
96041	5'10X7'9 ALUM SD MT WLKN CLR	EA	97	2537.04
96042	5'10X9'8 ALUM SD MT WALKIN CLR	EA	97	2885.90
96043	7'9X7'9 ALUM SD MT WALKIN CLR	EA	97	2923.25
96044	7'9X9'8 ALUM SD MT WALKIN CLR	EA	97	3319.61
96045	7'9X11'7 ALUM SD MT WALKIN CLR	EA	97	3706.47
96046	7'9X13'6 ALUM SD MT WALKIN CLR	EA	97	4102.81
96047	9'8X9'8 ALUM SD MT WALKIN CLR	EA	97	3788.14
96048	9'8X11'7 ALUM SD MT WALKIN CLR	EA	97	4222.47
96049	9'8X13'6 ALUM SD MT WALKIN CLR	EA	97	4666.95
96050	9'8X15'5 ALUM SD MT WALKIN CLR	EA	97	5101.29
96051	11'7X11'7 ALUM SD MT WALKIN CL	EA	97	4659.35
96052	11'7X13'6 ALUM SD MT WALKIN CL	EA	97	5008.85
96053	11'7X15'5 ALUM SD MT WALKIN CL	EA	97	5624.27
96054	11'7X17'4 ALUM SD MT WALKIN CL	EA	97	6116.87
96055	11'7X19'3 ALUM SD MT WALKIN CL	EA	97	6595.52
96060	5'10X5'10TOP MT ALUM WALKINCLR	EA	97	2195.13
96061	5'10X7'9 ALUM TOP MT WALKN CLR	EA	97	2537.04
96062	5'10X9'8 ALUM TOP MT WALKIN CL	EA	97	2885.90
96063	7'9X7'9 ALUM TOP MT WALKIN CLR	EA	97	2923.25
96064	7'9X9'8 ALUM TOP MT WALKIN CLR	EA	97	3319.61
96065	7'9X11'7 ALUM TOP MT WALKIN CL	EA	97	3706.47
96066	7'9X13'6 ALUM TOP MT WALKIN CL	EA	97	4102.81
96067	9'8X9'8 ALUM TOP MT WALKIN CLR	EA	97	3788.14
96068	9'8X11'7 ALUM TOP MT WALKIN CL	EA	97	4222.47
96069	9'8X13'6 ALUM TOP MT WALKIN CL	EA	97	4666.95
96070	9'8X15'5 ALUM TOP MT WALKIN CL	EA	97	5101.29
96071	11'7X11'7 ALUM TOP MT WALKIN C	EA	97	4659.35
96072	11'7X13'6 ALU TOP MT WALKIN CL	EA	97	5008.85
96073	11'7X15'5 ALUM TOP MT WALKIN C	EA	97	5624.27
96074	11'7X17'4 ALUM TOP MT WALKIN C	EA	97	6116.87
96075	11'7X19'3 ALUM TOP MT WALKINCL	EA	97	6602.22
96790	WATER FILTER SEDIMENT	EA	65	24.72
96791	REPL CARTRIDGE FOR 96790	EA	65	2.16
96792	WATER FILTER ODOR	EA	65	28.40
96793	REPL CARTRIDGE FOR 96792	EA	65	4.64
96808	WATER FAUCET FILTER	EA	65	16.80
96809	REPL FILTER FOR 96808	EA	65	2.62
96818	IN LINE WATER FILTER	EA	65	22.80
96819	REPL FILTER FOR 96818	EA	65	3.87
96847	CURTAIN 24" TO 30"	EA	97	108.12
96848	CURTAIN 31" TO 38"	EA	97	122.85
96849	CURTAIN 36" TO 42"	EA	97	161.46
96850	TEMP CURTAIN FOR TRUCKS	EA	97	45.00
97121	VA18 HUMIDIFIER	EA	94	84.89
97122	VA3 HUMIDIFIER	EA	94	136.57
97125	PAD FOR 97121	EA	94	5.29
97126	DISC BY MFG	EA	94	4.15
97147	16TR-1 (630018) MOTOR	EA	71	48.24
97148	FW115 (630025) MOTOR	EA	71	30.31
97681	PAD FOR HUMIDIFIER	EA	94	4.81
97684	3420 10 GAL HUMIDIFIER	EA	94	110.05
97706	EXHAUST FAN	EA	98	48.56
97707	EXHAUST FAN	EA	98	74.98
97708	DISC BY MFG	EA	98	14.27
97711	505 CEILING FAN (WAS 475)	EA	98	43.38
97712	504 CEILING FAN (WAS 471)	EA	98	57.87
97716	WALL EXHAUST FAN	EA	99	48.92
97717	WALL EXHAUST FAN	EA	99	73.63
97760	CEILING EXHAUST FAN	EA	98	18.25
97762	CEILING EXHAUST FAN	EA	98	23.50
97763	CEILING EXHAUST FAN	EA	98	25.92
97764	CEILING EXHAUST FAN	EA	98	46.51
97765	HTR LIGHT FAN COMBINATION	EA	98	86.98
97766	HTR LIGHT FAN COMBINATION	EA	98	52.97
97767	THREE CIRCUIT SWIT FOR 97765-6	EA	98	11.22
97881	AIR CLEANER	EA	95	277.80
98071	8400BTU 115V THUR WALL A/C	EA	98	412.30
98072	10000BTU 230V THUR WALL A/C	EA	98	416.29
98073	11800BTU 230V THUR WALL A/C	EA	98	454.86
98074	11800 BTU HT 230V THUR WALL A/	EA	98	482.79
98075	SLEEVE FOR WALL MOUNT	EA	98	39.90
98076	ADAPT KIT FOR FEDDERS	EA	98	19.95
98078	10000BTU HT 230V THUR WALL A/C	EA	98	445.55
98083	6200 BTU 115V THUR WALL A/C	EA	98	393.68
98680	AKT36 SELF CONT REFG 2DR	EA	96	1975.43
98682	SKT36 SELF CONT REFRIG 2DR	EA	96	2231.70
98683	AKT48 SELF CONT REFRIG 2DR	EA	96	1757.75
98685	SKT48 SELF CONT REFRIG 2DR	EA	96	2028.49
98689	AKT48FA SELF CONT FREEZER 2DR	EA	96	2293.21
98691	SKT48FA SELF CONT FREEZER 2DR	EA	96	2533.81
98695	AKR48 REMOTE W/O COND UNT 2DR	EA	96	1546.82
98697	SKR48 REMOTE MODEL W/O COND UN	EA	96	1785.07

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